



# भारत का वाज़ापत्र

## The Gazette of India

प्राधिकार से प्रकाशित

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No. 18]

NEW DELHI, SATURDAY, MAY 6, 1978 (VAISAKHA 16, 1900)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE  
PATENTS AND DESIGNS  
APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE

Calcutta, the 6th May 1978

The dates shown in crescent brackets are the dates claimed under the Section 135 of the Act.

30th March 1978

340/Cal/78. NRM Corporation. Tire component transfer.

341/Cal/78. NRM Corporation. Tire component building drum.

342/Cal/78. Michelin & Cie (Compagnie Generale des Etablissements Michelin). Tire valve.

31th March 1978

343/Cal/78. Azerbaizhansky Nauchno-Issledovatelsky Institut Vodnykh Problem Device for clarification of liquid.

344/Cal/78. Kraftwerk Union Aktiengesellschaft Mulheim (Ruhr). Screening member for separating solids from gaseous media.

345/Cal/78. Orissa Cement Limited. Pre cast wall or roof structure for buildings.

346/Cal/78. J. K. Dey & Sons. Self-contained internal re-lighting device for gas testing flame safety lamp.

347/Cal/78. Battelle Memorial Institute. Process and apparatus for continuous acid hydrolysis and saccharification.

348/Cal/78. Metal Box Limited. Bottle closures. (April 1, 1977).

57GI/78

349/Cal/78. Veb Kombinat Medizin- Und Labortechnik Leipzig. Surgical laparoscope.

350/Cal/78. Umeda Electronics Enterprises Laboratory Inc. Assemble body of small-sized electromagnetic meter.

1st April 1978

351/Cal/78. Innocente Riganti Officine Meccaniche S.p.A. A self gripping clamp with interchangeable liners.

352/Cal/78. Sri S. R. Misra. Non-hazardous bitumen, BITUMINOUS compounds namely "BIPCO'S N.H.B. COMPOUND" & Biown Bitumen.

353/Cal/78. Dr. Siddhartha Ray. Integrating type mass flow meter for liquids.

354/Cal/78. Stanadyne, Inc. Fuel oil filter.

355/Cal/78. Instytut Przemyslu Organicznego and Politechnika Wroclawska. A parasticide.

3rd April 1978

356/Cal/78. Montedison S.p.A. Improved process for the recovery of catalyst and solvent from the mother liquor of a process for the synthesis of terephthalic acid.

357/Cal/78. Davy-Loewy Limited Extrusion press. (April 4, 1977).

358/Cal/78. Dr. C. Otto & COMP. GMBH. Arrangement of battery decking in underjet coke ovens. (August 24, 1977).

359/Cal/78. Manoranjan Mukherjee. A cable distribution cabinet.

360/Cal/78. Sciaky Bros., Inc. Method and apparatus for manufacturing rotary drill bits.

4th April 1978

- 361/CaI/78. Westinghouse Electric Corporation. Variable capacity multiple compressor refrigeration system.
- 362/CaI/78. Mr. W. A. Desilva & Bhabesh Chandra Mukherjee. Patrol sever & humidifire Anjali.
- 363/CaI/78. Richter Gedeon Vegyeszeti Gyvar R. T. Packing to equipment for the purpose of contacting mainly gaseous and liquid mediums.
- 364/CaI/78. Dr. C. Otto & Comp. GMBH. and Saarbergwerke AG. A gas generator operating under pressure and at a high temperature.
- 365/CaI/78. Bunker Ramo Corporation. A connector for flat wire cables having improved contacts and integral strain relief means.
- 366/CaI/78. Chinoim Gyogyszer FS Begyeszeti Termekerk Gyara R.T. Process for preparing new benzimidazole derivatives. [Divisional date September 15, 1976].
- 367/CaI/78. J. P. Kuznetsov and M. I. Sokolov. Method for controlling induction motor with phase rotor and device for effecting the same.

5th April 1978

- 368/CaI/78. Vereinigte Oesterreichische Eisen-Und Stahlwerke-Alpine Montan Aktiengesellschaft. Device for cooling cutting teeth of cutter heads of cutting machines.
- 369/CaI/78. Vereinigte Oesterreichische Eisen-Und Stahlwerke-Alpine Montan Aktiengesellschaft. Cutting machine.
- 370/CaI/78. Georg Fischer Aktiengesellschaft. Process for the production of molded refractory articles.
- 371/CaI/78. Institut Technologie Nafta. Method of preparation of low-sulphur of electrode core from high-sulphur petroleum feedstocks and carbon products.
- 372/CaI/78. Snamprogetti S.p.A. Preparing oxalic acid esters.
- 373/CaI/78. The Dow Chemical Company. Substituted (phenyl amino carbonyl) Benzamides.
- 374/CaI/78. J. P. Ettridge. Improved sealing system for a rotary machine. (April 6, 1977).
- 375/CaI/78. Sandoz Ltd. A method of producing an insecticidal and/or herbicidal composition. [Divisional date February 16, 1976].

## APPLICATION FOR PATENTS FILED AT THE (DEPARTMENT OF TRADE AND INDUSTRY BRANCH)

2nd March 1978

- 165/Del/78. Council of Scientific and Industrial Research. A novel design of combustion tube for rapid and simultaneous determination of carbon hydrogen and chlorine or bromine or iodine or sulphur in organic matter, coke and coal, steel samples etc.

3rd March 1978

- 166/Del/78. The Standard Oil Company. Preparation of maleic anhydride from four-carbon hydrocarbons.
- 167/Del/78. The Badger Company, Inc. Fluidization promoter.
- 168/Del/78. Societe Nationale Des Poudres ET Explosifs. Process for the continuous nitration of cellulose and nitration apparatus installation for carrying out such process.
- 169/Del/78. USS Engineers and Consultants, Inc. Manufacture of insect molds.
- 170/Del/78. Miles Laboratories, Inc. Specific binding—adsorbent assay method and test means.

- 171/Del/78. Lankro Chemicals Limited. Plasticiser compositions for use with synthetic resins. (March 10, 1977).

7th March 1978

- 172/Del/78. The Chief Controller Research & Development (General), Ministry of Defence, Government of India. Production of 1, 3-diaminopropanol-2.

8th March 1978

- 173/Del/78. Shri K. J. Joseph, Shri H. L. Talwar and Shri Bernhard Schleinig. Automatic class room system.

- 174/Del/78. Racold Appliances Pvt. Ltd. A terminal holder.

- 175/Del/78. Dornier System G.m.b.H. Selective solar absorption layer. (April 1, 1977).

- 176/Del/78. J. M. Noguera. Top arms for textile fibre roller drafting mechanisms. (May 9, 1977).

- 177/Del/78. UCB, S.A. Plastics container for pressurized carbonated beverages. (March 8, 1977).

- 178/JDel/78. Maschinenfabrik Reinhhausen Gebrueder Scheubek GMBH & Co. KG. A tap switch attachment for a tapped transformer.

- 179/Del/78. A.C.R.F.T. (Atelier DU Centre DE Recherche Etudes ET Travaux). A prefabricated modular building.

- 180/Del/78. Vernitron Corporation. Multi-dose jet injection device powered by foot operated pump.

- 181/Del/78. Pont-A-Mousson S.A. Improvements in or relating to heat treatment methods for annealing cast iron pipes.

## APPLICATION FOR PATENTS FILED AT THE (BOMBAY BRANCH)

6th March, 1978

- 67/Bom/78. H. S. Vohra. A Perfume dispenser.

- 68/Bom/78. A. K. Mahodaya. Granule gun.

7th March 1978

- 69/Bom/78. S. K. Purushotamdas Patel. Improvements in or relating to pallet trucks.

- 70/Bom/78. S. T. Shetty. A novel leak proof and gas tight float assembly for floating roof tanks.

- 71/Bom/78. Dattatraya Industries Private Limited. A novel 7-pin plug-socket assembly.

8th March 1978

- 72/Bom/78. H. B. Parikh. A novel electronic meter relay.

10th March 1978

- 73/Bom/78. Anchor Industries. Improved electric switch.

14th March 1978

- 74/Bom/78. H. N. Patel. Process for producing shaped articles from methyl methacrylate type polymers and/or copolymers containing fillers.

- 75/Bom/78. P. K. Kulkarni and V. P. Kulkarni. Improvements in or relating to sealing combinations for butterfly valve.

- 76/Bom/78. Iyoti Limited. A device for simulating outdoor weather conditions.

- 77/Bom/78. Apex Engineering Private Limited. A pressure lock adjustable wrench.

16th March 1978

- 78/Bom/78. P. T. Rajak. Unique method of family planning.

17th March 1978

89/Bom/78. Darshana Textile Engineers. Continuous web doffing device for carding machine.

18th March 1978

80/Bom/78. C. M. Shah. An appliance to control the fluctuation in voltage of electric current in lighting system.

20th March 1978

81/Bom/78. M. C. Ramkrishna. Process for storing of LSHS fuel without heating the main storage tanks, pipe lines for storing, decanting and conveying for use in burners of the steam boilers.

21st March 1978

82/Bom/78. Emco Electricals Private Limited. A novel electromagnetic brake release assembly.

23rd March 1978

83/Bom/78. S. B. Banerji. Application of self automatic braking in bullock cart incorporating special mounting attachment arrangement between driving yoke and the carriage body.

84/Bom/78. C. G. Jani. An improvement and modification in or relating to traverse drums used in textile industry.

85/Bom/78. S. N. Modhia. Water heating.

27th March 1978

86/Bom/78. K. R. DHOLARIA. A device for saving fuel consumption and energy in diesel engines and electric motor pump sets respectively.

87/Bom/78. Ko-Plastics. Feeding bottle cover.

## APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

27th March 1978

43/Mas/78. M. Krishnaswamy. Compressed air starter for starting petrol or diesel engine.

44/Mas/78. M. P. Govind. Heat exchanger made out of plates.

45/Mas/78. M. P. Govind. Heat exchanger made out of finned elements.

28th March 1978

46/Mas/78. M. Kuppan. A device for providing against excessive build up of pressure in the fuel tanks of combustion equipment.

31st March 1978

47/Mas/78. Smt. Balasubramaniam Vijayalakshmi. Electrical connectors for terminating aluminium electrical L.T. cables.

## ALTERATION OF DATE

144469.

2066/Cal/76. Ante-dated 27th December, 1973.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India, Book Depot, 8 Kiran Shankar Ray Road, Calcutta in due Course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta or payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 70A.

144409

Int. Cl.-H01m, 27/00, 29/00.

## ELECTROCHEMICAL CELLS.

*Applicant :* UNION CARBIDE CORPORATION, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK-10017, UNITED STATES OF AMERICA.

*Inventors :* DANIEL HIRAM JOHNSON, DAVID MICHAEL KUBALA AND ROSWELL JACK BENNETT.

*Application No.* 1152/Cal/76 filed June 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

An electrochemical cell comprising an electrically conductive can closed at one end and open at the other end; an anode layer disposed within and in surface contact with said can thereby adapting said can as a first terminal for the cell; a porous separator layer disposed within and in surface contact with said anode layer; an elastically deformable carbonaceous cathode collector in the form of a slotted annular bobbin disposed within and in surface contact with said separator layer, said cathode collector exerting a bias against said separator which in turn contacts the anode thereby effectively maintaining good physical contact between the cathode collector, separator and anode during discharge of the cell; an active reducible cathode solution disposed within and through said cathode collector and said separator layer; a cover for said can; an insulating member interposed between said cover and the open end of said can such that a seal is formed between said cover and said can; and an electrically conductive means contacting said cathode collector and said cover thereby adapting said cover as the second terminal of the cell.

CLASS 47E.

144410

Int. Cl.-C10b 21/00.

A METHOD FOR THE PRODUCTION OF COKE USING A BATTTRY OF COKE OVENS WITH A REGENERATIVE CHANGE OF DRAUGHT.

*Applicant :* DR. C. OTTO & COMP. GMBH., OF BOCHUM, WEST GERMANY.

*Inventors :* ERICH PRIES, AND POLKARD WACKER-BARTH.

*Application No.* 1424/Cal/76 filed August 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims. No drawings.

A method for the production of coke using a battery of coke ovens with a regenerative change of draught, heating walls which are divided into heating-flue rows alternating with ovens in which adjustment of the combustion in the heating flues is used to ensure uniform heating of the oven contents vertically and control elements, such as oven curtains or dampers are used to control the operation of the discrete heating flues of each heating wall to ensure uniform heating of the oven contents lengthwise of the oven and of the discrete heating walls along the battery to ensure uniform heating of all the ovens, said method characterised in that the gas quantity supplied per unit of time and adjusted for a carbonization time corresponding to a high battery throughout, the nature of the heating of the heating flues, and the

position of the control elements are maintained for a relatively long carbonization time, and interruptions or pauses are introduced within each regenerative half-period as a means of dealing with reduced heat consumption.

## CLASS 23B.

144411.

Int. Cl.-B65b 17/00.

## A PACKING CASE.

*Applicant & Inventor* : RAJ KUMAR RAI, OF 17, CAMAC STREET, CALCUTTA-17, STATE OF WEST BENGAL, INDIA.

Application No. 1868/Cal/76 filed October 12, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A packing case comprising side walls, base and top in which the open side of the packing case which has to be closed consists of at least two side flaps hinged at their outer edges to the respective side walls, the inner edges of the said flaps mating with or adjacent to each other in the closed position characterised by that at the underside of each side flap is fitted at least one piece spacedly disposed from the side flap to thereby form a slot or passage between said piece on the inner side of the same and said flap and an independent closing strip to be used in conjunction with the said side flaps so that when the side flaps are turned to a position to close the open side of the packing case a combined slot is formed below the said side flaps in which the said independent closing strip is slipped in to prevent the lifting of the side flaps.

## CLASS 98-I.

144412.

Int. Cl.-F24j 3/02.

## A HEAT OPERATED MECHANICAL DEVICE TO CONTROL THE TEMPERATURE AND FLOW OF WATER ENTERING A HOT WATER STORAGE TANK IN A SOLAR HEATING SYSTEM.

*Applicant & Inventor* : JAGDISH CHANDRA KAPUR, KANPUR SOLAR FARMS, GURGAON NAJAFGARH ROAD, P.O. KAPAS HERA, NEW DELHI-110037, INDIA.

Application No. 18/Del/76 filed October 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A thermo mechanical device for regulating the temperature and flow of water in a solar heating system comprises a valve plate with valve and guide fixed in a housing with a central spindle and secured in position with suitable rubber packing, the said spindle having at its bottom a bellow, fixed thereto by means of a bellow plate adapted to expand and contract, within the housing, the said housing having provision of sleeves and sleeve stopper to regulate and restrict the movement of the said bellow to the present limits, characterised in that as the temperature of water in the heat collecting chamber rises to the preset limit, the bellow expands and moves upwards till the movement of the sleeve is stopped by the sleeve stopper as a result of which the flow of water in the direction of the bypass pipe line leading to the cold water tank stops and simultaneously raises the valve plate thereby causing the valve to open so that the hot water passage into the hotwater storage tank but when the temperature of the water falls below the preset limit, the said bellow contracts, which automatically closes the valve plate and seals the valve thus diverting the water flow in the direction of the bypass pipe line to the cold water storage tank.

CLASS 67c & 187E<sub>o</sub>.

144413.

Int. Cl.-G08b 29/00.

## AN IMPROVED TYPE OF ULTRASONIC AIR TRANSDUCER FOR AUTOMATION, SENSING AND REMOTE CONTROL APPLICATIONS.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

*Inventors* : DR. VISHWA NATH BINDAL AND SHRI MUKESH CHANDRA.

Application No. 295/Del/77 filed October 6, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims.

An ultrasonic transducer comprising a housing containing two semi circular electrodes on one face of a lead zirconate titanate polarised ceramic disc and a single circular electrode having a metallic disc fixed on it on other face of the ceramic disc, wherein the two semi-circular electrodes have two terminals whereby when the two terminals are connected to a variable oscillator, the combination of lead zirconate titanate ceramic disc and metallic disc vibrates at the resonant frequency, giving out ultrasonic waves characterised in that the metallic disc is provided with a metallic ring mounted on the opening of the transducer housing.

CLASS 99E & 143D<sub>1</sub> & D.

144414

Int. Cl.-B65d 75/00.

## COUPLER FOR CONTAINERS.

*Applicant* : METAL BOX LIMITED, OF QUEENS HOUSE, FORBURY ROAD, READING, RG 1 3JH, BERKSHIRE, ENGLAND.

*Inventor* : TERRY CURTIS.

Application No. 560/Cal/75 filed March 20, 1975.

Convention date July 9, 1974/(30373/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A coupler for coupling together in a package a plurality of containers each formed with a projecting bead or rim at an end thereof, comprising a centre portion, two intermediate portions joined by first, discontinuous lines of articulation to opposed sides of the centre portion, and two further portions joined by second lines of articulation to the sides of the intermediate portions remote from the centre portion, the centre portion being locally severed from the intermediate portions so as to form the intermediate portions with a plurality of discreet pairs of opposed free edges, the coupler being adapted for holding a plurality of the said containers arranged in line with each container having the under edge of its said bead or rim at opposed parts thereof engaged by a said pair of free edges of the intermediate portions, with the centre portion abutting the said ends of the containers, with the intermediate portions inclined to the central and further portions and extending continuously along the coupler on either side of the containers, and with the further portions abutting the containers either at their edges remote from the intermediate portions or at their inner faces.

## CLASS 98G &amp; 129G.

144415.

Int. Cl.-F28d 7/00, B23p 15/26.

## METHOD FOR PROVIDING IMPROVED NUCLEATE BOILING SURFACES.

*Applicant* : UOP INC., AT TEN UOP PLAZA—AIGON-QUIN AND MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, U.S.A.

*Inventors* : BINNIE JACK CAMPBELL AND KLAUS KARI RIEGER.

Application No. 889/Cal/75 filed May 2, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

A method of manufacturing a metal heat transfer surface with improved heat transfer capability comprising knurling at least a portion of the heat transfer surface and then subjecting the knurled portion to a finning operation.

CLASS 31A.

144416.

Int. Cl.-H01g 3/04.

## ELECTRICAL CAPACITOR HAVING AN IMPROVED DIELECTRIC SYSTEM AND A METHOD OF PROCESSING THE CAPACITOR.

*Applicant* : MCGRAW-EDISON COMPANY, 333 WEST RIVER ROAD, EIGIN, ILLINOIS, UNITED STATES OF AMERICA.

*Inventor* : JOHN LAPP AND FRED SPEER SADLER.

Application No. 1746/Cal/75 filed September 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 28 Claims.

An electrical capacitor, comprising a sealed casing, a capacitor pack in the casing and having a pair of electrically conductive strips and a pair of dielectric layers wound alternately to form the said capacitor pack, and a dielectric liquid composition impregnating said dielectric layers characterized in that said dielectric liquid composition comprises a mixture of a mono-halogenated diphenyl oxide and a mono-halogenated alkyl diphenyl oxide where the alkyl group contains from 1 to 20 carbon atoms in the molecule, and said dielectric layers are composed of polymeric film.

CLASS 152E.

144417.

Int. Cl.-C08f 45/32.

## A SCORCH RESISTANT VULCANIZABLE COMPOSITION AND A PROCESS FOR PREPARING SUCH COMPOSITION.

*Applicant* : UNION CARBIDE CORPORATION LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK-10017, UNITED STATES OF AMERICA.

*Inventor* : DONALD LINCOLN SCHOOBER.

144416.

Application No. 2257/Cal/75 filed November 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 24 Claims.

A scorch resistant vulcanizable composition comprising, in weight ratio, 100 parts by weight of ethylene polymer such as herein described, 0.1 to 5.0 parts by weight of at least one peroxide selected from the group consisting of bis-(2-tertiary-butylperoxy-isopropyl) benzene and 2, 5-dimethyl-2, 5-di-tertiary-butyl-peroxy-hexane, and 0.1 to 2.0 parts by weight of at least one hydroperoxide selected from the group consisting of cumene hydroperoxide and tertiary-butyl-hydroperoxide, said composition having an efficiency factor of at least about 3 units above the efficiency factor of said composition in the absence of said hydroperoxide when said efficiency factor is determined on the basis of rheometer curves obtained from a Monsanto Rheometer at a cure temperature of 360°F, using a rheometer oscillation of 110 CPM AND AN ARC OF  $\pm 5^\circ$ .

CLASS 152E.

144418.

Int. Cl.-C08f 29/00.

## A SCORCH RESISTANT VULCANIZABLE COMPOSITION AND A PROCESS FOR PREPARING SUCH COMPOSITION.

*Applicant* : UNION CARBIDE CORPORATION, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK-10017, UNITED STATES OF AMERICA.

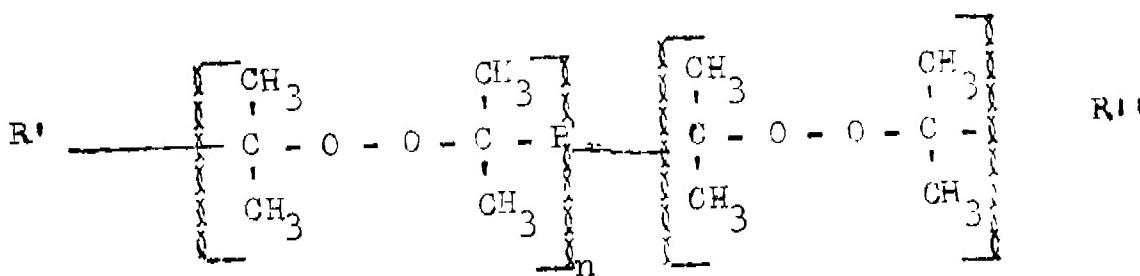
*Inventor* : DONALD LINCOLN SCHOOBER.

Application No. 2258/Cal/75 filed November 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

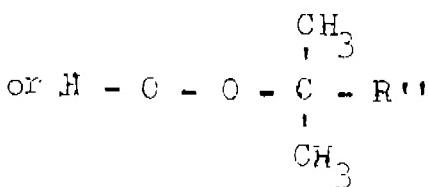
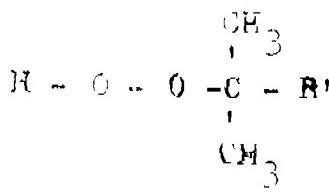
## 29 Claims.

A scorch resistant vulcanizable composition comprising, in weight ratio, 100 parts by weight of ethylene polymer such as herein described 0.1 to 5.0 parts by weight of at least one first peroxide compound which has a decomposition half-life of 0.5 to 4.5 minutes at 160 to 200°C. and has the structure



where R is a C<sub>1</sub> to C<sub>12</sub> divalent hydrocarbon radical, R' and R'' are the same or different C<sub>1</sub> to C<sub>12</sub> monovalent hydrocarbon radicals, and n is a whole number of 0 or 1, 0.1 to 2.0 parts by weight of at least one second peroxide which has

a decomposition rate which is at least 20 to 100 times slower than that of said first peroxide compound said second peroxide being 2, 5-dimethyl-2, 5-di-hydroperoxy hexane or a compound having the structure



wherein R' and R'' have the meaning given above and 0.1 to 5.0 parts by weight of at least one organic compound containing at least three allyl groups.

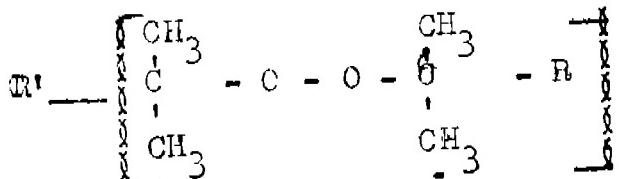
CLASS 152E.

144419.

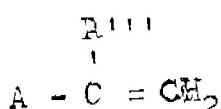
Int. Cl.-C08f 29/00.

**A SCORCH RESISTANT VULCANIZABLE COMPOSITION AND A PROCESS FOR PREPARING SUCH COMPOSITION.**

*Applicant : UNION CARBIDE CORPORATION, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.*



wherein R is a C<sub>1</sub> to C<sub>14</sub> divalent hydrocarbon radical, R' and R'' are the same or different C<sub>1</sub> to C<sub>14</sub> monovalent hydrocarbon radicals, and n is a whole number of 0 or 1, and 0.2 to 5 parts by weight of at least one vinyl compound which has the structure



wherein R''' is a C<sub>1</sub> is a C<sub>8</sub> hydrocarbon radical, A is an unsubstituted phenyl radical, a phenyl radical substituted with 1 O to C<sub>1</sub> to C<sub>6</sub> hydrocarbon radicals, or R''' — O — C — wherein R''' is a C<sub>1</sub> to C<sub>6</sub> hydrocarbon radical, with the proviso that the R''' and R'' radicals and the phenyl substituents are devoid of allyl or vinyl unsaturation.

CLASS 81.

144420.

Int. Cl.-

**A PROCESS FOR PREPARING HEAT PROTECTIVE COMPOSITES.**

*Applicant & Inventor : TAKASHI ISHIKAWA, OF 1355, OHAZA HIGASHINE-KO, HIGASHINE-SHI, YAMAGATA-KEN, JAPAN.*

Application No. 399/Cal/76 filed March 5, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims. No drawings.

A process for preparing heat protective composites, characterised by filling partly or totally into a porous core material one or more inorganic materials spontaneously foaming when exposed to an elevated temperature e.g. borates, silicates and phosphates incorporating additionally flame retarding synthetic resin panels, impregnating said core material with the foaming materials or coating the core material with said foaming materials and heating to dryness.

CLASS 98-I.

144421.

Int. Cl.-F24j 3/02.

**PROCESS FOR PHOTOCHEMICAL COLLECTION AND RETRIEVAL OF SOLAR ENERGY EMPLOYING REVERSIBLE PHOTOCHEMICAL ISOMERIZATION.**

*Applicant : BATTELLE DEVELOPMENT CORPORATION, LOCATED AT 505 KING AVENUE, COLUMBUS, OHIO 43201, UNITED STATES OF AMERICA.*

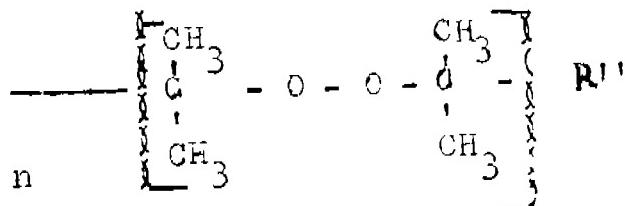
*Inventor : DONALD LINCOLN SCHOBER.*

Application No. 2259/Cal/75. filed November 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims.

A scorch resistant vulcanizable composition comprising, in weight ratio, upto and including 100 parts by weight of ethylene polymer such as herein described, 0.1 to 5.0 parts by weight of at least one peroxide compound which has a decomposition half-life of 0.5 to 4.5 minute at 160 to 200°C. and has the structure



*Inventors : RICHARD ARNOLD NATHAN, ROBERT EDWARD SCHWERZEL, ALBERT HARRY ADELMAN AND ROBERT EUGENE WYANT.*

Application No. 1910/Cal/76 filed October 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A process for photochemical collection and retrieval of solar energy, which process comprises the steps of : (a) exposing to solar radiation the trans-isomer of a geometrical isomerizable compound for a time sufficient to convert a significant portion thereof to its cis-isomer with the trans-isomer dissolved and/or dispersed in an aqueous liquid medium comprised of at least 50 percent by volume of water, which trans-isomer of the compound possesses the properties of undergoing geometrical isomerisation to the cis-isomer upon exposure to light wavelengths between 350 nm and 1200 nm with an absorbance maxima of said light for the cis-isomer at a shorter wavelength than the absorbance maxima of the trans-isomer having the properties of an absorbance maxima lying between the wavelengths of 350 nm and 800 nm; (b) heating the cis-isomer to a temperature initiating a triggering of an exothermal conversion thereof to the trans-isomer with released thermal energy obtained; and (c) continuing the exothermal conversion of cis-isomer to trans-isomer through utilization of a portion of the released thermal energy and without additional heat added thereto and with another portion of the released thermal energy transferred from the region of exothermal conversion for availability for useful thermal energy application.

CLASS 156D &amp; E &amp; G.

144422.

Int. Cl.-F04b 23/00.

**A MANUAL SYSTEM FOR DISPENSING A LIQUID LIKE MILK, BEVERAGES AND OTHER LIQUIDS.**

*Applicant : GIRISHCHANDRA MANILAL JHALA, RAJGHARTA MANSION, 11/1, RAWDON STREET, CITY OF CALCUTTA, STATE OF WEST BENGAL, INDIA.*

*Inventors : ANIMESH BANERJEE, KULBHUSHAN, VEDRAMANGAL SATHYAMOHAN HEBBAR AND VIJAY FULCHAND MURDE.*

Application No. 1055/Cal/77 filed July 11, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A manual system for dispensing liquids particularly milk and beverages in predetermined measured quantities, under hygienic conditions, comprising a cabinet or a locker in which the liquid to be dispensed is stored in one or more

containers, a dispensing unit in the form of a cylinder having a piston adapted to be reciprocated therein by a handle through a mechanism for converting the clockwise and the anticlockwise oscillations of the handle into linear strokes of the piston, a suction pipe extending from the said cylinder into one of more containers housed in the said cabinet or locker, a delivery pipe extending from the said cylinder and adapted to feed a receiver vessel and sanitary nonreturn valves provided in the said pipes, the cylinder and the piston constituting a positive displacement force pump, so that the liquid dispensed during the delivery stroke of the piston is of the predetermined quantity or volume.

CLASS 129, K & P. 144423.

Int. Cl.-B23g 1/00.

#### A THREAD CUTTING ATTACHMENT FOR A LATHE

*Applicant* : THE CENTRAL MACHINE TOOL INSTITUTE, TUMKUR ROAD, BANGALORE-22, KARNATAKA (A GOVERNMENT OF INDIA SOCIETY).

*Inventor* : GARGESWARI RAMARAO VENKATA RAO.

Application No. 187/Mas 75 filed November 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims.

A thread cutting attachment for lathe comprising a telescopic shaft driven by the lathe lead screw, a worm and worm wheel driven by the said telescopic shaft, two cams mounted on the shaft of the worm wheel, a longitudinal slide driver by one of the said cams to move the slide longitudinally, a tool post mounted on a cross slide driven by the other of said cams to move the said tool post in transverse direction, a bell crank hitting against a stop fixed on the stationary body imparting indexing motion to ratchet and pawl mechanism which give cross feed in through a face cam and an indexing knob with markings to set the depth of cut.

CLASS 128B. 144424.

Int. Cl.-A61f 5/01.

#### ORTHOPEDIC DEVICE

*Applicant* : YARDNEY COMPANY, 342, MADISON AVENUE, NEW YORK, NEW YORK, U.S.A.

*Inventor* : ELMER ARLUCK.

Application No. 672/Cal/75 filed April 2, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

37 Claims.

A formable orthopedic device comprising a plastic sheet member having one side covered with an insulating layer which is affixed to said plastic sheet member; said plastic sheet member having a flexural strength of between 3,000 and 14,000 psi, a flexural modulus of between about  $0.5 \times 10^8$  and  $7 \times 10^8$  psi; said insulating layer being at least about 10 mils thick, and having a coefficient of heat transfer below about  $2 \text{ cal/sec/cm}^2/\text{cm}/^\circ\text{C} \times 10^{-4}$ .

CLASS 708 & C. 144425

Int. Cl.-C22d 1/06.

#### DEVICE FOR COLLECTING THE FUMES PRODUCED DURING THE MANUFACTURE OF ALUMINIUM IN AN ELECTROLYSIS TANK WITH A CONTINUOUS ANODE

*Applicant* : ALUMINIUM PECHINEY OF 28 RUE DE BONNEL, 69433 LYON CEDEX 03, FRANCE.

*Inventors* : DANIEL DUCLAUX, ANDRE PONTIER AND GEORGES FERRET.

Application No. 706/Cal/75 filed April 8, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A device for collecting the fumes produced the manufacture of aluminium in an electrolysis tank with a continuous anode comprising a carbonaceous mass enclosed by a sheath and submerged in an electrolysis bath contained in a casing closed in its lower part by a cathode, this device including a hood and being characterised in that the latter comprises on the one hand on each of the two long sides of the tank a movable longitudinal panel covering the surface of the electrolysis bath between the sheath of the anode and the casing, this panel being provided on its upper side with a seal while its lower side is located a short distance from the edge of the casing so as to permit a slight inflow of air, and on the other hand a fixed part fitted to each of the two tank heads the lateral locking of which is effected with the interposition of the seals by the panels, the space defined above the tank head by the fixed parts of the hood and the panels being connected by a pipe to an installation for the treatment of the hood gases.

CLASS 167C & G. 144426

Int. Cl.-

#### MACHINE FOR SEPARATING FIBRES AND/OR WASTES FROM A MIXTURE OF PARTICULAR MATERIAL AND SUCH FIBRES AND/OR WASTES

*Applicant & Inventor* : CHONG MIN HO, C/O. C. M. HO & CO., MAKUM JUNCTION P.O. & T O. ASSAM, INDIA.

Application No. 1170/Cal/76 filed July 1, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

A machine for separating fibres and/or wastes from a mixture of particulate material and such fibres and/or wastes, which are of different dielectric strength, e.g. for separating fibres and stalks from a mass of tea, comprising a conveyor for said mixture disposed in an inclined plane, at least one electrostatically chargeable rotatable roller adjustably mounted above and transversely of said conveyor, and means for inducing electrostatic charge to said roller on rotation thereof, said means being constituted by a woolen or any fabric or foam rubber pad provided in frictional contact with said roller, the latter having around its surface a sleeve of electrostatically chargeable material e.g. P.V.C. or other thermoplastic materials, the arrangement being such that in operation of the machine the fibres and/or wastes are adapted to be separated from the particulate material by differential electrostatic attraction created by said roller, while being conveyed along said conveyor

CLASS 167C & G. 144427.

Int. Cl.-A23f 3/00, B07b 13/00.

#### CONTINUOUS PROCESS AND APPARATUS FOR SORTING OR GRADING OF TEA AND EXTRACTING FIBRES AND WASTES THEREFROM SIMULTANEOUSLY

*Applicant & Inventor* : CHONG MIN HO, C/O. C. M. HO & CO., HAKUM JUNCTION P.O., ASSAM, INDIA.

Application No. 872/Cal/77 filed June 10, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A continuous process of sorting or grading of tea and extracting fibres and wastes therefrom simultaneously, comprising the steps of :

(a) passing the bulk tea through an electrostatic field defined by an oscillating tea leaf-carrying surface disposed in an inclined plane, and a plurality of electrostatically charged rotating rollers adjustably mounted above and transversely of said leaf carrying surface, the latter being further constituted by a bubbled tray at its feed end and one or more removable perforated trays of varying mesh sizes disposed in series and in the same plane, whereby the fibres and wastes

are extracted from the tea leaves by said electrostatically charged rollers and simultaneously the bulk tea is divided into two or more groups according to the particle sizes; and

(b) conveying separately said two or more groups of tea so divided by step (a), through predetermined distances before these are individually subjected to simultaneous fibre extraction and sorting again according to the same technique as adopted in said step (a) for selective extraction of fibres and wastes, and for further sorting or grading of tea, as desired.

CLASS 122 & 167G. 144428.  
Int. Cl.-A23f 3/00, B07b 13/00.

**MACHINE FOR CONTINUOUSLY SEPARATING STALKS FROM TEA MASS.**

*Applicant & Inventor : CHONG MIN HO, C/O. C. M. HO & CO., MAKUM JUNCTION P.O., ASSAM, INDIA.*

Application No. 873/Cal/77 filed June 10, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims.**

A machine for continuously separating tea stalks from a mass of tea comprising an oscillating frame having mounted thereon in an inclined plane a tea leaf-carrying surface defined by a plurality of trays arranged in series and in stepped relation to each other such that the outlet or front end of one tray is disposed above the receiving or rear end of the next tray and so on in the direction of the feed end to the finishing end of the leaf-carrying surface, a plurality of electrostatically charged rotating rollers adjustably mounted above and transversely of said leaf-carrying surface, each of said rollers being disposed at the outlet or front end of each of said trays, and a plurality of stalk-collecting troughs, each of said troughs having an open transverse edge at its receiving or rear end, said troughs being disposed in between said leaf-carrying surface and said rollers such that one stalk-collecting trough is in the same plane as that of the next higher tray of the leaf-carrying surface and so on, whereby the stalks selectively picked up and/or lifted up from the tea mass by said rollers through the openings defined by said open edges of the stalk-collecting troughs and the outlet or front ends of the trays constituting the leaf-carrying surface, are adapted to be collected in said stalk-collecting troughs.

CLASS 54 & 185B. 144429.  
Int. Cl.-C12b 1/10.

**IMPROVED FERMENTATION TROUGH AIR SEAL/FOR USE IN TEA FERMENTING GROUGHS**

*Applicant & Inventor : CHONG MIN HO, C/O. C. M. HO & CO., MAKUM JUNCTION P.O., ASSAM, INDIA.*

Application No. 874/Cal/77 filed June 10, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

**7 Claims.**

An improved fermentation trough air seal for use in tea fermenting troughs comprising an air-inflated tube of bellow-shape cross-section and made of non-porous resilient material, such as herein described, said tube being fitted at the joining line between the upper edge of a saddle of the trough and the lower edge of a fermenting container, removably disposed on top of the saddle, said tube being adapted to conform to the shape and dents, if any, of the lower edge of the fermenting container to define a fool-proof air seal, when the container is placed on the saddle.

CLASS 195C. 144430.  
Int. Cl.-F16k 5/00.

**LIQUID OUTLET VALVE.**

*Applicant : R HARING AG MASCHINENBAU, OF 4147 AESCH, SWITZERLAND.*

*Inventor : ROLF HARING.*

Application No. 585/Cal/75 filed March 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**9 Claims.**

A liquid outlet valve connectable to the outlet of a pipe and comprising :

(a) a through hole member having an entry opening, a first outlet opening, a straight-through main passage between said entry opening and said first outlet opening, a second outlet opening and a lateral secondary passage branching off from said main passage and leading to said second outlet opening;

(b) a sleeve member surrounding the lower half of said through-hole member, and having annular flange means projecting inwardly outside said first outlet opening of said main passage;

(c) sealing means adapted for closing off said first outlet opening when being urged into sealing engagement with said flange means and with the lower part of said sleeve member outside the latter opening and

(d) connecting means for movably connecting said sleeve member with said through-hole member, said connecting means serving to adjust the position of said sleeve member and said throughhole member relative to one another, thereby controlling the amount of liquid flowing through said main passage;

(e) said throughhole member and said sleeve member having cylindrical surfaces opposite one another and helical grooves of equal pitch but different depth in said cylindrical surfaces to accommodate said connecting means;

(f) and said connecting means being a coil spring having the same pitch as said grooves, the thickness of the wire of which coil spring is equal to approximately twice the depth of the shallower one of said two grooves, and further having a bias in radial direction relative to the helix described by said grooves which bias is directed into the flatter one of said grooves;

(g) the helical grooves located in the inner cylindrical surface of said sleeve member merging at the groove end away from said outlet opening with an annular groove in said inner cylindrical surface of said sleeve member which latter annular groove is wider in axial direction than said helical groove.

CLASS 56C. 144431.  
Int. Cl.-B01d 9/02.

**PROCESS FOR THE PREPARATION OF A NEW LIQUID CRYSTAL MATERIAL FOR USE IN ELECTRO OPTICAL DISPLAY DEVICES.**

*Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.*

*Inventors : VISHNU GANESH BHIDE, SUBHAS CHANDRA AND SUKHMAL CHAND JAIN.*

Application No. 696/Cal/75 filed April 7, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

**5 Claims. No drawings.**

Process for the preparation of a new liquid crystal material for use in electro-optical display devices comprises heating separately a nematic liquid crystal material like p-methoxy benzylidene p-n butylaniline and a cholesteric liquid crystal material like cholesteryl nonanoate to their respective clearing temperatures, mixing from 0.25—0.5% by wt. of the said heated cholesteric liquid crystal material with the hot nematic liquid crystal material, thoroughly stirring the same and cooling the product thus obtained slowly to room temperature.

CLASS 143D. 144432.  
Int. Cl.-B65b 11/00.

**BOOK PACKAGING PROCEDURE.**

*Applicant & Inventor : VELIKKO JANMONEN, OF VIIKI-NMAENTIE 19, 00560 HELSINKI 56, FINLAND.*

Application No. 1505/Cal/75 filed July 30, 1975.

\* Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

Method of packaging books for shipment by mail wherein a strip or strip a paper or similar material is wound and secured about the book in a direction parallel to the back thereof, and the book is thereafter inserted in a protective cardboard sheet, one edge of which has a length exceeding the length of the back of the book and the other edge has a length exceeding twice the width of the book-cover either the strip or the mating parts of the cardboard sheet being provided with adhesive in order to bring them to adhere to each other, characterized in that upon securing of the strip the book is placed on the cardboard sheet with the back along the middle of the longer edge of the sheet, the sheet is folded tightly about the book, and the parts of the sheet projecting from the book along the edge opposite to the back are secured to each other.

## CLASS 10B.

144433.

Int. Cl. F42b 3/00.

## NONELECTRIC BLASTING CAP ASSMBLIES AND BLASTING SYSTEM INCLUDING THE SAME.

*Applicant* : HERCULES INCORPORATED, OF 910 MARKET STREET, CITY OF WILMINGTON, STATE OF DELAWARE, UNITED STATES OF AMERICA.

*Inventor* : DAVID THOMAS ZEBREE.

Application No. 1535/Cal/75 filed August 5, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

A nonelectric blasting cap assembly, which comprises, a closed shell including an elongated closure member therefor, deformable for crimping described hereinafter, and an initiator charge within said shell ignitable in response to action of thermal detonation energy of an explosive gas mixture said closure member containing an open space substantially coaxial therewith including a cavity disposed intermediate its ends and a perforation extending from said cavity through one end of said closure into open communication with said initiator charge; first and second conduits each extending within said closure member from the opposite end thereof in open communication with the outside of said shell and with said cavity, and in water tight relationship with said closure; an explosive charge within said shell detonatable in operative response to ignition of said initiator charge; and crimp means on the exterior of said shell extending through the shell wall around said perforation and then into said end closure member in support of said closure member and said shell in water tight relationship.

## CLASS 99B &amp; 179E.

144434.

Int. Cl. B65d 41/00.

## IMPROVEMENTS IN OR RELATING TO TEAR OPEN CONTAINERS.

*Applicant* : METAL BOX LIMITED, OF QUEENS HOUSE FORBURY ROAD, READING, RG1 3JH, BERKSHIRE, ENGLAND.

*Inventor* : JOHN BEVERIDGE.

Application No. 2315/Cal/75 filed December 9, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

The combination of a tubular body for a container and an easy-opening end closure seamed to one end of the body the closure having a removable panel defined by a line of weakness, and a flexible band, bonded to the removable panel releasably adhered to the remainder of the end and arranged to span the weakening line, said band being adapted to mask the torn edge of the panel after removal of the panel from the closure the combination further including means formed integrally from the material of the body or the closure and

2—57GI/78

arranged to mask the torn edge of the remainder of the closure on removal of the removable panel thereof.

## CLASS 47C.

144435.

Int. Cl. C10b 35/00, C10b 31/00.

## A FEEDER FOR FEEDING COAL INTO A PRESSURE REACTOR AND PROCESS FOR GASIFICATION OF COAL THEREIN.

*Applicant* : METALLGFSELISCHAFT A. G., OF 16 FRANKFURT A. M., REUTERWEG 14, WEST GERMANY.

*Inventors* : DR. GERHARD BARON, DR. CARL HAFKE, DR. DIETRICH ENGLER, RAINER REIMERT AND DR. FRIEDRICH BLAUM.

Application No. 2292/Cal/76 filed December 30, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A feeder for feeding particulate coal into a pressure reactor for gasification of coal comprising a guide cylinder which is secured to the reactor and surrounds a reactor inlet, which is adapted to be closed, and a stationary feed conduit directed toward the guide cylinder, characterized by a container which is gastightly guided in the guide cylinder and movable up and down therein and has a bottom that is adapted to be closed.

## CLASS 64B.

144436.

Int. Cl. H01r 33/00, 15/00.

## IMPROVEMENTS IN OR RELATING TO HOUSINGS FOR PLUG-IN MODULES.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : KARL DORFLINGER, HERMANN RENNER AND RICHARD THEUS.

Application No. 845/Cal/75 filed April 26, 1975.

Convention date August 12, 1974/(35356/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A housing for plug-in modules incorporating electrical components having good electrical screening and heat dissipation property characterized by that the housing has internal locating rails for the said modules and external runners for use in an assembly system, said housing, said locating rails and the external runners being moulded as a single piece from a synthetic plastics material containing graphite and metallic powder or the said housing being thereafter metallised by electrodeposition, said housing having one or more internal partition walls formed integral with the housing.

## CLASS 129G.

144437.

Int. Cl. B23f 19/08.

## A METHOD AND AN APPARATUS FOR MACHINING A GEAR-WHEEL FOR A ROTARY DISPLACEMENT MACHINE.

*Applicant* : GRASSO'S KONINKLIJKE MACHINFFABRIKFN N. V., OF PARALLELWEG 27, S-HERTOGENBOSCH, THE NETHERLANDS.

*Inventor* : IAN TONNIS KEIJER.

Application No. 1215/Cal/75 filed June 19, 1975

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

A method of machining a gear-wheel destined to cooperate sealingly with a globoid worm in a rotary machine, such as a compressor for compressing a gaseous medium, in which

method a preformed gear-wheel-shaped or disc-like workpiece blank is rotated about a first axis at least one cutting knife rotated about a second axis substantially at right angles to said axis the respective speeds of rotation of the knife and workpiece blank the same ratio as the transmission between gear-wheel and globoid worm in the machine for which the gear-wheel is intended, and during the machining there is steplike or continuous relative approach movement of the axes.

CLASS 129G &amp; M.

144438.

Int. Cl.-B23d 23/00.

## METHOD AND APPARATUS FOR TRIMMING A CONTAINER BODY.

*Applicant*: METAL BOX LIMITED, OF QUEENS HOUSE, FORBURY ROAD, READING RG 1 3JH, BERKSHIRE, ENGLAND.

*Inventors*: JOZEF TADEUSZ FRANEK, AND PETER RHODES.

Application No. 1517/Cd/75 filed August 1, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A method of trimming a container body having an open end defined by a side wall, said method comprising the steps of expanding a marginal portion of the side wall adjacent to the open end thereof to form the side wall with an expanded portion defining the open end of the body and a flared portion which joins the expanded portion to the remainder of

$$= \text{arc} \sin \left[ \frac{\cos \alpha}{\frac{z_1}{z_2}} \right]$$

$$\left( + \sqrt{\sin^2 \frac{\alpha}{2} + \left( \frac{z_1}{z_2} \right)^2 - 1} - \sin \frac{\alpha}{2} \right)$$

where  $z_1$ =the number of teeth of the other plate,

$z_2$ =the number of teeth of the swash plate, and

$2\alpha$ =the angle formed between the flanks of a tooth.

CLASS 105B &amp; 136E.

144440.

Int. Cl.-B22c 9/02.

## A DEVICE FOR DETERMINING THE SCABBING PROPENSITY OF MOULDING SANDS.

*Applicant*: INDIAN INSTITUTE OF TECHNOLOGY, I.I.T., P.O., MADRAS-600036, TAMIL NADU, INDIA.

*Inventors*: DR. ERODE GANAPATHIYER RAMACHANDRAN, DR. HATHIBELAGAL MAHAMMED ROSHAN AND SENGUNTHAPURAM VAITHILINGAM SAMBASIVAN.

Application No. 22/Mas/77 filed January 20, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims.

A device for determining the scabbing propensity (as herein defined of a moulding sand, comprising a hot-plate mounted on a rigid support; means for heating the hot-plate uniformly to a desired temperature; a pattern for use in the preparation of a mould from the moulding sand, with at least a part of the cope surface of the mould exposed to view, the arrangement being such that with the mould supported at a predetermined distance over the hot-plate heated to the desired temperature, the time taken for the cope surface of the mould to commence spalling indicates the scabbing propensity of the moulding sand

the side wall, supporting the flared portion and severing the body within the flared portion of the side wall).

CLASS 127G.

144439.

Int. Cl.-F16h 37/00.

## PLANETARY GEARING.

*Applicant*: BALCKE-DURR AG., OF HOMBERGER STRASSE 2, D-4030 RATINGEN, WEST GERMANY.

*Inventor*: KURT GERHARD FICKELSCHER.

Application No. 646/Cal/76 filed April 15, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

32 Claims.

Planetary gearing comprising a rotatable swash plate, at least another toothed plate engaged by said swash plate, said plates being disposed in respective intersecting radial planes having an angle  $\beta$  included therebetween, said plates having on respective faces thereof different numbers of teeth formed on respective conical surfaces, the teeth of said toothed plate having flanks, extension lines from all of said flanks intersecting in points located on an imaginary circle having an axis coincident with the axis of said other toothed plate, the teeth of said toothed swash plate having flanks, extension lines from all of said flanks of said swash plate teeth intersecting in a common point, said common point, during rotation of said swash plate, defining said imaginary circle as the base of an imaginary cone, an angle  $\gamma = 2\beta$  being included between protected radial planes of the respective rows of the teeth of said swash plate and said other plate and being defined in the following equation :

CLASS 97G &amp; H.

144441.

Int. Cl.-H05b 3/26.

## IMPROVED ELECTRIC STOVE.

*Applicant & Inventor*: JOSE THAIKATTIL, THAIKATTIL HOUSE, ANCHERY, TRICHUR, KERALA STATE, INDIA.

Application No. 39/Mas/76 filed March 1, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims.

An improved electric stove comprising, in combination, an outer housing, a heating element provided on a refractory base, the said refractory base being spacedly disposed within said housing, a first laminate supporting said refractory base, a second laminate spacedly disposed below the said first laminate to prevent downward dissipation of heat and means provided on said housing for supporting said first and second laminates, the said housing extending beyond the said refractory base and the said second laminate and the said housing and first and second laminates being made of non-metallic, thermally and electrically non-conducting material.

CLASS 128F.

144442.

Int. Cl.-A61m 5/14.

## A CONSTANT FLOW DEVICE FOR USE WITH INTRAVENOUS INFUSION SET.

*Applicant*: YARDEN MEDICAL ENGINEERING LTD., OF 36 HAPALMACH STREET, HAIFA, ISRAEL.

*Inventor*: DAN BRON.

Application No. 1372/Cal/75 filed July 15, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A constant-flow device for use with an intravenous infusion set, placed into the line leading from a high-level solution container or bag to a lower-level sight glass or inspection chamber of known design, the device comprising :—(a) a housing having a liquid inlet in its upper portion and a liquid outlet in its bottom portion, as well as a vent to the outside in its upper portion, (b) valve means actuated by a float movably arranged in the housing and adapted to close the liquid inlet at a predetermined height of the liquid level in the housing, (c) manually operated regulating valve means placed into the liquid outlet.

CLASS 32F<sub>1</sub> & 170B.

144443

Int. Cl.-C11d 1/14.

## PROCESS FOR PREPARING FOAMING AGENT.

*Applicant* : ZHDANOVSKY ZAVOD TYAZHELOGO MASHINOSTROENIYA IMENI 50 LETIA VELIKOI OKTYABRASKOI SOTSIALISTICHESKOI REVOLJUTSII, ZHDANOV, DONETSKOI OBLASTI, ULITSA IlichA 145/147, U.S.S.R., (2) ZHDANOVSKY METALLURGICHESKY INSTITUT, ZHDANOV, DONETSKOI OBLASTI, ULITSA APATOVA 115, USSR, (3) ZHDANOVSKY KOKHIMICHESKY ZAVOD, ZHDANOV, DONETSKOI OBLASTI, LEVY BEREG REKI KALMIUS, U.S.S.R. AND (4) ZHDANOVSKY METALLURGICHESKY ZAVOD IMENI IlichA, ZHDANOV, DONETSKOI OBLASTI, GSP-102, U.S.S.R.

*Inventors* : VLADIMIR KUZMICH SHIPULIN, KORNELIA PAVLOVNA BOETSKAYA, NINA IOSIFOVNA AMITINA, ZINOVY IVANOVICH LEVOHENKO, VALERY ALEXANDROVICH VASILIEV, VERA IOSTFOVNA ZHMAKOVA, VIKTOR ALEXANDROVICH GUBA, LEONID LOBAS, IVAN IVANOVICH BRAGIN, LJUBOV GFORANDREEVICH BOLSHAKOV, VALENTIN EFIMOVICH GIEVNA KUZMENKOVA, EVDOKIA EFIMOVNA TSIVADITS AND NIKOLAI NIKOLAEVICH VARAVA

Application No. 1983/Cal/75 filed October 10, 1975

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims. No drawings.

Process for preparing from the waste of sulphuric-acid refining of coke by-product benzol, a foaming agent of the following composition, percent by weight :

- alkali salts of sulpho acids of aromatic hydrocarbons from 20 to 40;
- water-soluble products of polymerization of unsaturated hydrocarbons and sulphur compounds contained in coke by-product benzol and produced in the presence of concentrated sulphuric acid, from 3 to 10;
- sulphates of alkali metals and ammonium sulphate, from 5 to 20;
- water, the balance, which comprises neutralizing "acid tar" as herein defined with an aqueous solution of known alkali reagents followed by removing hydrocarbons from the said neutralized "acid tar" by method as herein described.

CLASS 32F<sub>1</sub> & F<sub>2a</sub> & F<sub>2c</sub>.

144444

Int. Cl.-C07c 87/30.

## PROCESS FOR THE PRODUCTION OF QUATERNATED POLYAMINE SALTS.

*Applicant* : SANDOZ LTD., OF LICHTSTRASSE 35,4002 BASLE, SWITZERLAND.

*Inventor* : HANS-PETER BAUMANN.

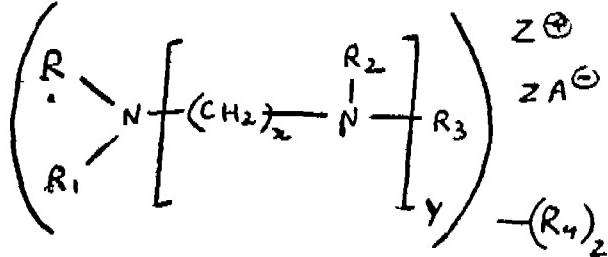
Application No. 387/Cal/76 filed March 4, 1976

Convention date March 5, 1975/(9100/75) U.K.

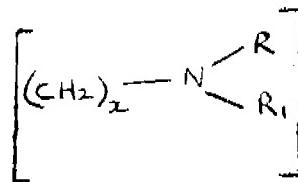
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

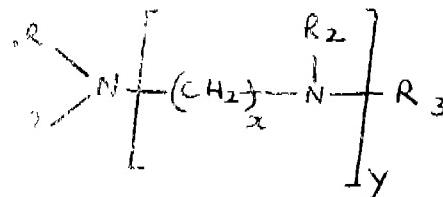
A process for producing a quaternary salt of formula I.



in which R signifies a C<sub>1-12</sub> alkyl, C<sub>10-18</sub> alkenyl, phenyl-(C<sub>1-12</sub>) alkyl or naphthyl-(C<sub>1-12</sub>) alkyl radical, R<sub>1</sub> signifies a phenyl-(C<sub>1-12</sub>) alkyl or naphthyl-(C<sub>1-12</sub>) alkyl radical, x signifies an integer 2 to 8, y signifies 0 or an integer 1 to 5, each R<sub>2</sub> and R<sub>3</sub>, independently, has one of the significances of R, or signifies a group of formula II.



wherein x, R and R<sub>1</sub> are as defined above, any repeating R, R<sub>1</sub> and groups of formula II being independent from each other, and at least one of R<sub>2</sub> or R<sub>3</sub>'s and R<sub>4</sub> signifying a group of formula II each R<sub>4</sub> independently, signifies a quaternating C<sub>1-12</sub> alkyl radical, z signifies a number in the range 0.5 to 1.8, being an average number of quaternated nitrogen atoms per molecule, and each A-, independently, signifies an anion, comprising quaternating from 0.5 to 1.8 nitrogen atoms on average in a basic polyamine of formula II'.



in which R, R<sub>1</sub>, xy, R<sub>2</sub> and R<sub>3</sub> are as defined above, with one or more alkylating agents containing C<sub>1-12</sub> alkyl radicals as the alkylating groups.

CLASS 3A.

144445.

Int. Cl.-A23d 1/00, C02d 1/02, 1/04.

## PROCESS AND APPARATUS FOR PREPARING AND DISPENSING CARBONATED LIQUIDS.

*Applicant* : DAGMA DEUTSCHE AUTOMATEN- UND GETRANKEMASCHINEN-GESELLSCHAFT MIT BESCHRANKTER HAFTUNG & CO., OF SCHILLERSTRASSE 22, 2067 REINFELD/H, WEST GERMANY.

*Inventors* : ALEXANDER KUCKENS AND HORST KOHL.

Application No. 442/Cal/76 filed March 12, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 26 Claims.

A method of making and distributing carbonated liquids, such as beverages, comprising mixing a predetermined amount of cooled water containing carbon dioxide gas with a predetermined amount of a flowable flavouring substance, such as syrup or concentrate, characterized in that primarily, the predetermined amount of water cooled to a temperature markedly below a predetermined value is unstressed and under the pressure ambient atmosphere is allowed to flow in a slow

and calm current through a limited mixing zone to a discharge area, and that after initiation of the water flow, under the action of natural static pressure at a temperature markedly above the predetermined value, the predetermined amount of flavouring of flavouring substance is introduced into a limited zone of said current in which by abrupt liberation of part of the carbonic acid a turbulence sufficient to homogenously mix both components is effected.

## CLASS 32A1.

144446.

Int. Cl.-C09b 55/00.

## PROCESS FOR THE PREPARATION OF WATER-INSOLUBLE DISAZO METHINE COMPOUNDS.

*Applicant* : HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

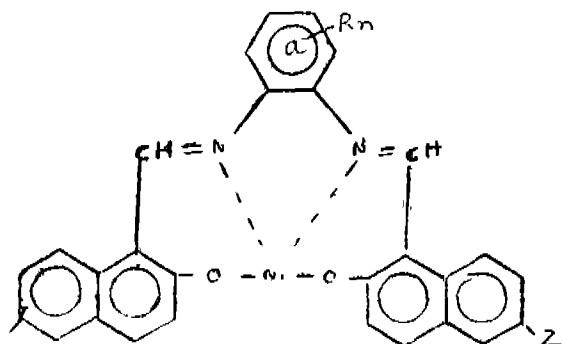
*Inventors* : THEODOR PAPENFUHS, HEINRICH VOLK.

Application No. 609/Cal/76 filed April 7, 1976.

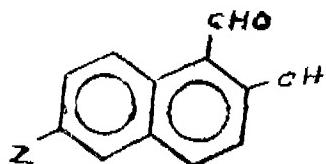
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

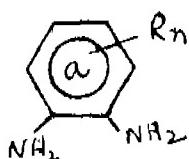
Process for the preparation of a compound of the formula I



wherein the R are different or the same and each is halogen, lower alkyl, lower alkoxy, phenoxy, phenoxy substituted by 1 or 2 substituents selected from the group consisting of halogen, lower alkyl and lower alkoxy, hydroxy, cyano, trifluoromethyl, carboxy, carboxylic acid lower alkyl ester, lower alkanoyl, benzoyl or benzyl substituted by 1 or 2 substituents selected from the group consisting of halogen, lower alkyl and lower alkoxy, n is 1, 2 or 3 and Z is hydrogen, halogen, lower alkoxy, nitro or cyano, which process comprises condensing 2 mols of an aldehyde of the formula (II).



in which Z is defined as above, with 1 mol of a diamine of the formula (III).



in which R and n are defined as above, and metalizing the disazo methine compound so obtained simultaneously or afterwards by treating the reaction mixture with an agent yielding bivalent nickel, such as a salt of nickel.

## CLASS 123 &amp; 132A1.

144447.

Int. Cl.-C05f 9/02.

## IMPROVED COMPOSTING UNIT.

*Applicant* : WHITESIDE NOMINEES PTY. LTD. & WESTLAKE NOMINEES PTY. LTD., OF 94 HAY STREET, SUBIACO, WESTERN AUSTRALIA.

*Inventor* : PETER MAURICE WHITESIDE.

Application No. 660/Cal/76 filed April 17, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A composting unit comprising a substantially cylindrical container mounted in an elevated position on a stand for rotation about a substantially horizontal axis, means to effect manual rotation of said container, a door provided in the cylindrical wall of the container through which material to be composted can be loaded into and composted material discharged from the container, a fly proof aeration drain unit fixed to the wall of the container through which any excess liquid can discharge when the unit is in the lowermost position and through which air can pass into the container and at least one fly proof discharge vent positioned in at least one wall of the container remote from said aeration drain unit so that air can flow through said container.

## CLASS 128G.

144448.

Int. Cl.-A61b 5/00.

## A PROCESS FOR PRODUCING A TESTING DEVICE.

*Applicant* : THE WELLCOME FOUNDATION LIMITED, OF 183-193 EUSTON ROAD, LONDON, N.W. 1, ENGLAND.

*Inventor* : DOUGLAS ESMOND FAULKNER.

Application No. 797/Cal/76 filed May 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

A process for producing a test device for the detection of uric acid in fluids above or below a selected concentration limit under alkaline conditions, comprising the step of adding in combination a predetermined amount of an iodine source, an iodine indicator and an iodine solubilizer on a solid and inert support, the amount of iodine source and iodine indicator being selected so that on reacting with a volume of test fluid sufficient to saturate the support, a complete loss of indicator colour takes place at the selected uric acid concentration, or at a higher concentration, and a residual colour is detectable below such concentration.

## CLASS 32A1 &amp; 40F.

144449.

Int. Cl.-C09b 67/00.

## PROCESS FOR THE PREPARATION OF A STABLE MONOAZO DYESTUFF.

*Applicant* : HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

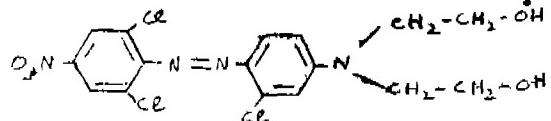
*Inventors* : HUBERT KRUSE AND KARL SOMMER.

Application No. 801/Cal/76 filed May 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

Process for the preparation of the  $\beta$ -modification, being stable under dyeing conditions, of the dyestuff of the formula I.



characterized by an X-ray diffraction pattern with characteris-

tic reflexes at the following glancing angles  $\theta$  with the relative

intensities as given below :

$2.45^\circ$	$6.30^\circ$	$10.07^\circ$	$11.00^\circ$	$11.35^\circ$	$11.70^\circ$	$12.46^\circ$	$13.55^\circ$
63	100	30	48	83	88	86	59
$14.80^\circ$	$15.85^\circ$						
52	34						

by a heat treatment of the  $\alpha$ -modification (being unstable under dyeing conditions and being characterized by the X-ray diffraction pattern as indicated in Fig. 2) in a liquor optionally in the presence of surface-active substances.

CLASS 27-I. 144450.

Int. Cl.-E04b 1/35.

#### METHOD OF ERECTING SINGLE OR MULTIPLE STORY CONCRETE COLUMNLESS BUILDINGS.

*Applicant & Inventor* : PABLO CORTINA ORTEGA, OF SIERRA SANTA, ROSA 64, MEXICO 10 D.F., MEXICO.

Application No. 2524/Cal/74 filed November 15, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims.

The method of erecting single or multiple story concrete columnless buildings which comprises the steps of :

forming a permanent base for a building to be erected, said base forming a first casting bed;

pouring a first set of load supporting, downwardly swingable wall panels in a generally horizontal position on said first casting bed;

filling any voids in or between said wall panels to provide a second casting bed;

pouring a first floor slab in horizontal position on said second casting bed;

securing lift attaching members to the periphery of said first floor slab;

attaching said first set of wall panels to said first floor slab by securing spaced apart, flexible pick-up cables across a pivot line between each said wall panel and said floor slab;

pouring alternating additional sets of wall panels and floor slabs one above the other in layers with each layer utilizing the preceding layer as a casting bed, securing lift attaching members to each of said floor slabs and attaching each set of wall panels to its corresponding floor slab to form a stack of said wall panels and floor slabs corresponding to the stories of the building;

erecting pairs of spaced columns exteriorly of said base and adjacent said lift attaching members, said columns being slightly greater in height than the height of the erected building;

movably supporting a bridge member between each said pair of columns, each of said bridge members extending over said stack of wall panels and floor slabs and carrying lift means adjacent each column;

attaching lift fixtures to said lift attaching members on said floor slabs;

connecting said lift fixtures to said lift means;

actuating said lift means to raise said stack whereby each of the wall panels in said first set of wall panels swing downwardly on said pick-up cables about said pivot lines to a vertical, load supporting position;

lowering said stack to support said first floor slab and said stack on said downwardly swung walls;

disconnecting said lift fixtures from the lift attaching members on said first floor slab, disengaging said lift means, and raising said bridge on said columns the height of an additional story;

engaging said lift means with said lift fixtures, and repetitively and alternately raising said stack to allow succeeding sets of wall panels to swing into position, and raising said bridges and lift means to peel out successive layers of said wall panels and floor slabs to erect each additional story of said building; and

dismantling and removing said bridge members and columns after said building has been erected.

CLASS 24-B. 144451.

Int. Cl.-F16d 55/10.

#### IMPROVEMENTS IN DISC BRAKES.

*Applicant* : GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

*Inventor* : CHRISTOPHER NEIL MATHIAS.

Application No. 1131/Cal/75 filed June 6, 1975.

Convention date June 19, 1974 (27086/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims.

A disc brake of the kind set forth for vehicles in which the carrier incorporates spaced arms extending axially in a direction away from the plane of the disc and on one side only of the disc, the arms providing a pair of spaced parallel guides with which a pair of complementary axially extending guides on the caliper co-operate slidably, one pair of the guides comprise grooves and the other pair comprise tongues slidably received in the grooves, and respective slippers are removably located in gaps defined between respective complementary surfaces of the tongues and grooves, the dimensions of the gaps being such that an engagement of one of the tongues with an end wall of the groove in which it is received provides a clearance between the other tongue and the open mouth of the other groove to permit the caliper to be removed from the brake, the slippers being axially slidable out of the gaps wherewithal the caliper can be removed from the brake in a radial direction.

CLASS 102-D. 144452.

Int. Cl.-F15b 3/00.

#### CONTROL SYSTEM FOR AXIAL PISTON FLUID ENERGY TRANSLATING DEVICE.

*Applicant* : ABEX CORPORATION, OF 530 FIFTH AVENUE, NEW YORK, NEW YORK 10036, UNITED STATES OF AMERICA.

*Inventors* : ELLIS HERMAN BORN, (2) WILLIAM HENRY MEISEL, (3) ALAN HARVEY VILES.

Application No. 1241/Cal/75 filed June 24, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 21 Claims.

In a variable displacement fluid energy translating device having a housing, a barrel rotatably supported in the housing, a plurality of cylinders formed in the barrel and aligned parallel with the axis of rotation thereof, a piston mounted for reciprocation in each cylinder, a port plate at one end of the barrel in communication with the inlet port and outlet port of the device a shoe connected to the end of each piston projecting from a cylinder a rocker cam support a rocker cam pivotally mounted in the support for movement about an axis perpendicular to the axis of rotation of the barrel, a surface on the rocker cam for engaging the piston shoes, and means for retaining the piston shoes against the rocker cam surface such that the pistons are caused to reciprocate within the cylinders when the cam surface is inclined, the improvement comprising fluid motor means for pivoting the rocker cam to change the inclination of the rocker cam for varying the displacement of the device including a first fluid motor member rigidly secured to the rocker cam, a second fluid motor member secured to said housing and cooperative with the first fluid motor member to define first and second sealed fluid receiving chambers, and valve means for selectively supplying pressure fluid to one of said chambers and simultaneously exhausting fluid from the other of said chambers to effect movement of said first fluid motor member to selectively position the rocker cam.

CLASS 129-G.

144453

Int. Cl.-B23b 23/00.

## MACHINING CENTER AND METHOD OF MACHINING PIECES.

*Applicant* : THE CROSS COMPANY, OF 17801 FOURTEEN MILE ROAD, FRASER, MICHIGAN 48026, UNITED STATES OF AMERICA.

Inventor : CONWAY D. SHELTON.

Application No. 1569/Cal/75 filed August 12, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 22 Claims.

In a machining center for machine tools, a fixed endless track defining a path of constant length, a plurality of tool heads slidably supported for movement along said track whereby individual tool heads may be lifted off said track, a machining station on said track, means at said station for accurately locating and securing certain tool heads while still on the path of said track for a machining operation, tool head drive means at said station, means for selectively engaging said drive means with a secured tool head, work supporting means at said station, means for moving said work supporting means from a retracted position to a position in which the work-piece is engaged by the tools carried by the tool head and back to a retracted position, at least one endless driving member extending along said track, drive means continuously driving said driving member, and mutual engageable surfaces on said driving member and tool heads forming a yieldable driving connection, whereby certain tool heads may be advanced along said track while other tool heads are held stationary.

CLASS 136-E.

144454.

Int. Cl.-B28b 5/00.

## METHOD OF FORMING MOULDED ARTICLES.

*Applicant & Inventor* : PAUL RITTER, OF 76, BROOKTON HIGHWAY, KELMSCOTT, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA.

Application No. 1745/Cal/75 filed September 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A method of forming a coated article having patterned or textured finish on the outer surface thereof by moulding comprising : applying a coloured composition to the moulding inner surface of a mould made of expanded polystyrene of a

desired configuration filling said mould with a settable hydraulic cement or similar composition allowing said cement or similar composition to harden, applying an organic solvent to the outer surface of said mould to dissolve at least a portion of said polystyrene and said coloured composition, causing a portion of said solution of polystyrene in the solvent applied to remain on the concrete article, said coloured composition being at least partially soluble in said solvent and permitting said solvent to evaporate to form patterned or textured finish on the surface of said article, and if a better coloured finish is desired, to accelerate the evaporation of the said solvent and ignite its evaporated vapour.

CLASS 107-G &amp; 175-H.

144455.

Int. Cl.-F16j 1/00.

## PISTON FOR AN INTERNAL COMBUSTION ENGINE.

*Applicant* : CUMMINS ENGINE COMPANY, INC., OF 1000 FIFTH STREET, CITY OF COLUMBUS, STATE OF INDIANA, UNITED STATES OF AMERICA.

*Inventors* : RICHARD BELUSH & JAMES ABELL WADE.

Application No. 888/Cal/76 filed May 22, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims.

A piston for an internal combustion engine, comprising a circular dome, means connected to the outer periphery of said dome for supporting piston rings, piston pin bosses having laterally extending bores formed therethrough for fastening said piston to a connecting rod of the engine a plurality of angularly spaced arcuate thrust pads in the spaces between said bosses an annular support member located coaxially with said dome said supporting said dome on said bosses and a plurality of laterally extending struts connecting said pads and said bosses for supporting said pads on said bosses.

CLASS 31C.

144456.

Int. Cl.-B01j 17/00.

## A METHOD FOR PREPARING A SEMICONDUCTOR SUBSTRATE HAVING AN INSULATING LAYER OF SILICON DIOXIDE ON SAME.

*Applicant* : REGISTRAR, INDIAN INSTITUTE OF SCIENCE, BANGALORE, KARNATAKA, INDIA.

*Inventors* : UTPAL KUMAR CHAKRABARTI AND DR. ING. VISHNUPRAKASH JOSHI.

Application No. 26/Mas/76 filed February 13, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras. Branch.

## 5 Claims. No drawings.

A method for preparing a semiconductor substrate having an insulating layer of silicon dioxide or same which comprises depositing a solution of silicon tetra acetate on a semiconductor surface and allowing the so deposited silicon tetra acetate layer to react with air thereby forming an insulating layer of silicon dioxide on the semiconductor substrate.

CLASS 76C &amp; 95C.

144457.

Int. Cl.-F16b 2/12.

## A UNIVERSAL CLAMPING DEVICES.

*Applicant & Inventor* : PUTTUR RANGASWAMY SRI-NIVASAN, OF PRS EQUIPMENT, DIVISION NO. 6, BANGALORE CO-OPERATIVE INDUSTRIAL ESTATE LIMITED, OKALIPURAM, BANGALORE-560021, KARNATAKA, INDIA.

Application No. 32/Mas/76 filed February 21, 1976.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Madras Branch.

## 7 Claims.

A universal clamping device comprising a first rotatable spindle mounted on the body thereof; two jaws threadedly engaged with the first spindle and thus linearly movable together and apart to the desired extent; a second rotatable spindle mounted on the body, parallel to the first spindle; a detachable base-member threadedly engaged with the second spindle and thus linearly movable parallelly to the jaws to the desired extent; and two detachable jaw-plates engaged respectively with the jaws.

CLASS 89. 144458.  
Int. Cl.-G01i 7/16.

## AN AIR PRESSURE GAUGE.

*Applicant* : INTERNATIONAL INSTRUMENTS PRIVATE LIMITED, 140, HOSUR ROAD, BANGALORE-560034, KARNATAKA, INDIA.

*Inventor* : RAMACHANDRAN KALYANASUNDARAM.

Application No. 192/Mas/76 filed October 6, 1976.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Madras Branch.

## 4 Claims.

An air pressure gauge comprising a housing provided with an entry for pressurised air from a source, the housing accommodating a spring-loaded piston movable under the pressure of the air; a spring-loaded sector and a pinion in engagement, the sector being movable by a spring-holder, provided for the spring of the piston, to cause an angular displacement of the pinion; a graduated dial; a pointer mounted on the pinion over the dial, the deflection of the pointer being determined by the angular displacement of the pinion to indicate the pressure of the air; and means for arresting the pointer in its deflected state and for releasing it thereafter to reset it.

CLASS 49H. 144459.  
Int. Cl.-A47j 27/08.

## IMPROVEMENTS IN OR RELATING TO PRESSURE COOKERS.

*Applicant* : TT (PRIVATE) LIMITED, OF DOORAVANINAGAR, BANGALORE-560016, KARNATAKA, INDIA.

*Inventor* : TIRUVALLUR THATTAI JAGANNATHAN.

Application No. 68/Mas/77 April 15, 1977.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Madras Branch

## 4 Claims.

A pressure cooker characterised by a base, the external surface of which is provided with one or more linear and/or curvilinear indentations to provide a corresponding rib or ribs on the internal surface thereto, the depth of the indentation or indentations being such that the rib or ribs are enabled to conveniently support a vessel thereon and simultaneously indicate the desirable level to which water is to be introduced into the said cooker.

CLASS 131A & 151C. 144460.  
Int. Cl.-F16l 11/08, E21b 17/00.

## HOSE CONSTRUCTION, PARTICULARLY TO DEEP BORF HOLES.

*Applicant* : TAURUS GUMJIPARI VALLALAT, OF 17, KEREPESI UT, 1087 BUDAPEST, HUNGARY.

*Inventors* : LASZLO HORVATH, GUSZTAV GONDISCH, SANDOR ANTAL, MIHALY ARVAI, ELEMER LANTOS AND GYORGY ZADOR.

Application No. 787/Cal/75 filed April 18, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A hose construction provided with reinforcing inserts, particularly to deep holes, characterized in that it consists of at least two outer tubes fixed to the constructional elements of the flexible hose by an adhesive layer, to the outer tube an inner supporting element is attached through the constructional element of the hose, said element being at least partly coated with an elastomer and entirely or partly conically formed co-operating in taking the axial load and having the shape of a surface of revolution, simultaneously preventing the breakdown.

CLASS 6A, & 67A & 172D. 144461.

Int. Cl.-D01h 15/00.

## CONTROL ARRANGEMENT FOR YARN PIECING APPARATUS.

*Applicant* : PARKS-CRAMER COMPANY, P.O. BOX 444 FITCHBURG, MASSACHUSETTS, U.S.A.

*Inventors* : CHARLES DIXON LEE, JR AND WILLIAM LAWSON MULLIGAN.

Application No. 1262/Cal/75 filed June 26, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

In combination with a textile yarn forming machine having a plurality of drafting systems arranged at a series of locations for normally receiving a corresponding series of supply strands and normally delivering a corresponding series of attenuated strands and a plurality of stop members, each mounted adjacent a corresponding one of said drafting systems and selectively actuatable for movement between a retracted position spaced from a corresponding supply strand and a strand interrupting position engaging and restraining the corresponding supply strand and thereby for interrupting passage of the restrained supply strand into the corresponding drafting system, and a traveling unit traversing the machine and having instrumentalities for reconstituting attenuated strand formation at a drafting system where an attenuated strand is absent, an arrangement for facilitating reduction in the number of ineffective attempts at reconstitution of strand formation and comprising : active sonic detector means mounted on said traveling unit for movement therewith along said machine and for electrically signaling traversal of a drafting system location at which the corresponding one of said stop members is in the retracted position, attenuated strand detector means mounted on said traveling unit for movement therewith along said machine and responsive to electrostatic charges normally present at drafting system location, during attenuated strand formation for electrically signaling traversal of a drafting system location at which normal attenuated strand formation is occurring, logic circuit means electrically connected with said sonic detector means and said strand detector means for distinguishing among signaled traversal of a location at which said corresponding member is in the retracted position and strand formation is occurring signaled traversal of a location at which said corresponding member is in the retracted position and strand formation has been interrupted, and traversal of a location at which said corresponding member is in the strand interrupting position, and control means for responding to said logic circuit means distinguishing signaled traversal of a location at which said corresponding member is retracted and strand formation has been interrupted by stopping traversal of said machine by said traveling unit and initiating operation of said instrumentalities for reconstituting attenuated strand formation and for responding to said logic circuit distinguishing either of the other traversals by continuing traversal of said machine by said traveling unit

CLASS 24B. 144462.  
Int. Cl.-F16d 51/00, 51/10.

## IMPROVEMENTS IN INTERNAL SHOE DRUM BRAKES.

*Applicant* : GIRLING LIMITED, OF KINGS ROAD, TYSELEY BIRMINGHAM 11, ENGLAND.

*Inventor* : TERENCE GEORGE SOUTHAM.

Application No. 1352/Cal/75 filed July 10, 1975.

Convention date July 19, 1974/(32029/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

An internal shoe-drum brake of the kind set forth in which the cam is angularly movable to apply the brake by a separate cam lever which is itself angularly movable about a pivot fixed with respect to the anchor pin, and the cam and the cam lever are coupled by a single pivot pin separate from the pivot and by means of which the transmission means are also connected to the cam lever, the single pivot pin comprising the sole common and direct connection between the cam, the cam lever and the transmission means, and the cam being permitted a circumferential movement both with the shoe ends and relative to the lever in the application of the brake.

CLASS 62D & 172F. 144463.  
Int. Cl.-D01h 13/30, D06c 23/00.

IMPROVED BULKED MULTIFILAMENT YARN AND A PROCESS FOR PRODUCING THE SAME.

*Applicant* : JOHN HEATHCOAT & COMPANY LIMITED, OF TIVERTON, DEVON, ENGLAND.

*Inventors* : PETER WILLIAM FOSTER, DUNCAN CAMERON FERRIER, THOMAS BERRY AND KAREL MURENBEELD.

Application No. 1488/Cal/75 filed July 29, 1975.  
Convention date July 31, 1974/(33834/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A bulked multifilament yarn having filaments of polymeric material which has been separated from one another to form a yarn in which the spatial arrangements of the constituent molecules of the polymer change along the lengths of the filaments to provide alternating points of maximum density and minimum density occurring with a maximum spacing of 10 metres.

CLASS 32A, & A<sub>8</sub>. 144464.  
Int. Cl.-C09b 62/00, 62/04.

PROCESS FOR THE MANUFACTURE OF REACTIVE DYESTUFFS.

*Applicant* : CIBA-GEIGY AG, OF KLYBECKSTRASSE 141, BASLE, SWITZERLAND.

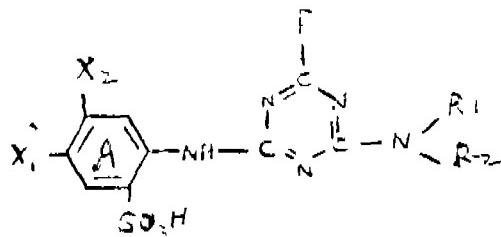
*Inventors* : HERBERT SEILER, AND GERT HEGAR.

Application No. 40/Cal/76 filed January 6, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

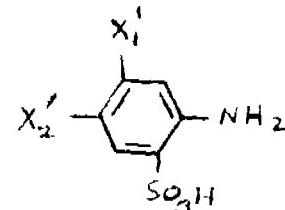
17 Claims.

Process for the manufacture of dyestuffs of the formula (I).

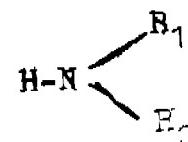


wherein R<sup>1</sup> is hydrogen or a low-molecular alkyl group such as hereinbefore defined, R<sup>2</sup> is hydrogen, a low-molecular alkyl group, an aryl radical or the radical of an organic dyestuff containing sulpho groups such as hereinbefore defined, and R<sup>3</sup> and R<sup>4</sup> together with the nitrogen atom can form a 5- or 6-membered N-heterocyclic ring which is bound via the N-atom to the triazine ring and which may contain a further -N-

-O- or -S-atom as ring member, X<sup>1</sup> and X<sup>2</sup> are hydrogen, methyl, methoxy, chloro, acetylarnino, carboxy, a sulpho group or the -N=N-K radical, wherein K is the radical of a coupling component and, if one X is the -N=N-K radical, the other X is a sulpho group, and the benzene ring 9 can contain as further substituents alkyl with 1 to 6 carbon atoms, alkoxy with 1 to 6 carbon atoms, halogen and carboxylic acid groups, characterised in that an amine of the formula (2).



wherein X<sup>1</sup> and X<sup>2</sup> are hydrogen, methyl, methoxy, chloro, acetylarnino, carboxy, a sulpho group or the -N=N-K radical and if one X<sup>1</sup> is an amino group, the other X<sup>2</sup> is a sulpho group, is reacted with 2, 4, 6-trifluoro-1, 3, 5-triazine, the resulting condensation product is subsequently condensed with a compound of the formula (3).



wherein R<sub>1</sub> is hydrogen or a low-molecular alkyl group and R<sub>2</sub> is hydrogen, a low-molecular alkyl group, an aryl radical or the radical of an organic dyestuff containing sulpho groups and if one X' is a primary amino group and/or R<sub>2</sub> is an aryl radical without dyestuff character with carries substituents which permit a further diazotisation and/or coupling, subjecting the condensation products thus obtained to steps of diazotisation and/or coupling in a known manner.

CLASS 52A & 110. 144465.  
Int. Cl.-D06c 13/00, D04b 15/00.

PROCESS AND DEVICE FOR SEVERING THREADS, FIBRES OR FLAT SHAPED ARTICLES OF PREFERABLY SYNTHETIC TEXTILE MATERIALS, ESPECIALLY FOR SEPARATING PILE LOOPS ON PILE KNITTING MACHINES.

*Applicant* : VBB VIRKMASCHINENBAU KARL-MARX-STADT., 90 KARL-MARXSTADT, ANNABERGER STRASSE 73, GERMAN DEMOCRATIC REPUBLIC.

*Inventors* : FRITZ STOPP, HEINZ LINDNER, GERHARD HAAS AND WERNER GEHM.

Application No. 155/Cal/76 filed January 28, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A method for the severing of threads, fibres or planar structures made of preferably synthetic textile materials, more particularly for severing the pile loops on pile fabric knitting machines by means of moving severing elements, wherein the threads, fibres or planar structures are severed by grinding with severing elements consisting of a pressure-moulded or cast high polymer-filler mixture in which the filler is constituted by particles of an abrasive material.

CLASS 65B. 144466.  
Int. Cl.-H01f 40/00, H02 7/00.

AN OVER VOLTAGE PROTECTIVE DEVICE FOR CURRENT TRANSFORMERS.

*Applicant* : BHARAT HEAVY ELECTRICALS LTD., ESNP DIVISION, AT 7TH FLOOR, ANSAL BHAVAN, 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA.

*Inventor* : SURESH KASTURCHAND KASLIWAL.

Application No. 1016/Cal/76 filed June 11, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims.

An overvoltage protection device for current transformers comprising two thyristors being the first and second thyristors connected in parallel across the secondary terminals of the said current transformer and disposed in opposite direction to each other, a diode for each thyristor connected between the gate of the thyristor and a tapping of a potential divider which is arranged across the secondary terminals of the transformer, one of the said thyristor shorting the open circuit of the transformer till the open circuit is rectified by a transformer load (burden).

CLASS 83A.

Int. Cl.-A23i 1/00.

144467.

**IMPROVED PROCESS FOR THE PRODUCTION OF COCONUT CREAM.**

*Applicant :* BANCO DE MAXICO, S.A., OF INSURGENTES NORTE 423, 13 PISO, MEXICO 13, D.F.

*Inventors :* IGNACIO MERCADO-FLORES, SERGIO CARVALHO-GARNICA, AND LUIS EDUARDO LARA-SANCHFZ.

Application No. 1263/Cal/76 filed July 14, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An improved process for the production of coconut cream, which comprises essentially the steps of :

(a) Shredding and shelling the fruit of the palm tree (*cocos nucifera*) or coconut when the fruit is ripe, manually, to leave as only useful portion, the white fresh pulp containing juice in its inside;

(b) cracking the coconut (endosperm), separating the juice, which juice is thereafter utilized when it is clear and has no unpleasant odor, as otherwise the juice which is not good is discarded;

(c) weighing the pulp on one part and on the other establishing a weight of coconut juice plus fresh water, which equals the weight of the pulp;

(d) comminuting the coconut pulp while boiling coconut juice plus water is added, so that the comminution takes place in the presence of hot aqueous liquid;

(e) expressing under a pressure of 60 to 100 lb/in<sup>2</sup>, the mixture of comminuted pulp plus hot aqueous liquid, whereby a liquid "coconut cream" is obtained;

(f) passing the coconut cream to a bucket having a vapor jacket wherein said coconut cream is heated to a temperature near 74°C;

(g) adding to the coconut cream, one or more additives selected from the group consisting of glucose, sugar, glyceryl monoestearate, carboxymethylcellulose and mixtures thereof;

(h) stirring the coconut cream and its additives and immediately heating the mixture to a temperature near 87°C during a period of time preferably of 20 minutes;

(i) bottling or canning the product.

CLASS 52B.

Int. Cl.-B26f 1/00.

144468.

**A MACHINE FOR PERFORATING HIGH DENSITY POLYETHYLENE FILM OR THE LIKE FILM MATERIAL.**

*Applicant :* PACELENE COMPANY LIMITED, OF GORT ROAD, ENNIS, COUNTY CLARE, REPUBLIC OF IRELAND.

*Inventor :* VERNON GERAID RALPH DIXON.

3—57GI/78

Application No. 1600/Cal/76 filed August 31, 1976.

Convention date September 1, 1975/(1907/75) FIRE.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A machine for perforating high density polyethylene film or the like film material comprising a feed roller for supplying film material to be perforated from a roll thereof, cooperating male and female rollers between which film material from the feed roller passes for perforation and a take up means for receiving the perforated film material, in which a plurality of blade members are provided each mounted for reciprocal motion relative to the surface of the male roller between a first position wherein the blade member projects from the surface of the male roller and a second position wherein the blade member is retracted into the male roller, an adjustable indexing means being provided which cooperates with the blade members such that at least in the vicinity of the female roller preselected ones of the blade members are caused to project from the surface of the male roller and the non-selected blade members are caused to be in the retracted positions, whereby in use a preselected blade member projecting from the surface of the male roller enters a complementary recess in the female roller to perforate film material passing between the said male and female rollers.

CLASS 14A.

144469.

**METHOD OF TREATING THE PLATES TO BE USED IN THE LEAD ACID STORAGE BATTERY.**

*Applicant :* GOULD INC, AT 1110 HIGHWAY 10, MENOMA HEIGHTS, MINNESOTA, U.S.A.

*Inventors :* GEORGE WENJUNG MAO, ANTHONY SABATINO AND PURUSHOTTAM RAO.

Application No. 2066/Cal/76 filed November 17, 1976.

Division of Application No. 2817/Cal/73 filed December 27, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

Method of manufacturing a lead-acid storage battery characterized by :

(a) forming the battery plates by bringing said plates into contact with a formation electrolyte and applying current thereto;

(b) draining the formation electrolyte from contact with said plates;

(c) bringing said plates into contact with a treating solution affording under the conditions of contact sodium sulfate in an amount sufficient to condition said plates;

(d) draining the treating solution from contact with said plates; and

(e) sealing the battery with the plates positioned therein to at least substantially prevent the ingress of air:

CLASS 60A & 128A & B.

144470.

Int. Cl.-A61f 13/00.

**A CLAVICAL BRACE.**

*Applicant & Inventor :* MAYOOR CHINUBHAI GANDHI, AT SHREYAS, 2ND FLOOR, NARIMAN POINT, BOMBAY-400020, STATE OF MAHARASHTRA, INDIA.

Application No. 98/Bom/76 filed March 22, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims.

Clavical brace comprising two equal flat-padded longitudinal arm-like members stitched to the edges of a central vertical stiff canvass double band and proceeding therefrom in

opposite directions at an obtuse angle between  $100^\circ$  to  $110^\circ$  to the band, the lower end of the central band and the free ends of the members having canvass tapes stitched to them, each of the said three tapes being adapted to pass through and be held by a buckie, the brace further comprising a semi-circular ring carrying three sliding buckle-holders, each buckle-holder being constructed from a piece of canvass tape, the tape being made to pass through the ring and a buckle and being stitched widthwise with its ends folded in forming two loops on one side of the stitches and one central loop carrying the ring and the buckle on the other side of the stitches, the two loops being adapted to provide a resting pad for the buckle, the ring being held to the lower end of the central band of the brace by passing its pendent tape through the buckle of the buckle-holder positioned along the diametrical portion of the ring.

CLASS 86B.  
Int. Cl.-A47c 19/00.

144471.

A BED HAVING A MOVABLE MATTRESS SUPPORTING PLATFORM.

*Applicant* : AVION AUSTRALIA PTY. LTD. (FORMERLY KNOWN AS AVION MACKIE PTY. LTD., OF 6 'O'MALLEY STREET, OSBORNE PARK, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA.

*Inventor* : JOHN ANTHONY HOLLAND.

Application No. 1408/Cal/75 filed July 18, 1975.

Convention date August 2, 1974/(PB 8390/74) AUSTRALIA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

A bed having a movable mattress supporting platform mounted upon a frame having legs mounted to the underneath thereof, the frame having internal dimensions greater than the external dimensions of the platform the mounting between the frame and the platform comprising a plurality of operating shafts rotatably mounted to the frame, at least one arm radially extending from each operating shaft, each arm being connected to the platform by a link so that when a turning force is applied to any one of the operating shafts a portion of the platform to which the associated link is attached is raised or lowered, and wherein the platform is intended, when horizontal, to lie closely adjacent the frame and, when inclined, to be inclined upwardly at one end from the frame.

CLASS 5A.  
Int. Cl.-F02f 3/62.

144472.

#### WINCH ACTION TRACTOR.

*Applicant & Inventor* : BISHAN KUMAR SHARMA, OF G-2, MODEL TOWN, DELHI-110009, INDIA.

Application No. 1661/Cal/75 filed August 27, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 3 Claims.

A winch action tractor which comprises :—

(a) winch assembly, having a winch in the centre and two free axles, one above and one below the said winch.

(b) tiller, having a front triangular platform with a free wheelless apex and two small wheels at the said triangle's base angles, with an up and down moving and downward-teeth bearing rear platform hinged to the said triangle's base line,

(c) a pulley mounted on a free axle which rests on a stand,

(d) a pair of wire rope reels one of which is mounted on any of the free axles and the other mounted on the winch,

(e) triangular wire rope connected to the free apex end of the said platform and the wire rope reel mounted on the

winch, a second wire rope passing over the said pulley and connected at its two ends to the wire rope reel mounted on the axle and to the rear end of the tiller

CLASS 87E & II.  
Int. Cl.-A63c 17/18.

144473.

#### MULTI-WHEEL ROLLER SKATE.

*Applicant* : DUOROLL AG., BAHNHOFSTRASS 23, CH-6301 U G, SWITZERLAND.

*Inventors* : ALADAR LEHNER AND ISTVAN VARGA.

Application No. 1038/Cal/76 filed June 15, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 19 Claims.

A multi-wheel roller skate, having at least one steerable wheel pivoting about a steering axis, and comprising a frame which can be inclined or tilted laterally with respect to the ground, and a steering element controlling the steering movements of the wheel and pivotally connected to the frame on a tilting axis which is inclined in relation to the ground surface as defined by the contact points with the wheels, at an angle where  $0 \leq \alpha < \pi/2$ .

CLASS 80-I.  
Int. Cl.-B01d 39/00, 39/08.

144474.

#### IMPROVEMENTS IN OR RELATING TO FILTERS FOR LIQUIDS.

*Applicant* : MOTOR INDUSTRIES CO. LTD., OF HOSUR ROAD, ADUGODI, BANGALORE-560030, KARNATAKA, INDIA.

*Inventors* : YEDUR MAHABALA JOIS BALAKRISHNA AND MATHAMUDRE SUBRAMANYA SASTRY RAJA RAO.

Application No. 104/Mas/76 filed June 5, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rule, 1972) Patent Office Madras Branch.

#### 9 Claims.

An improved filter for fluids having an inner filter support means with filtering means disposed over it, characterised in that there is circumferentially disposed over the said support a first filtering means comprised of at least one layer of flannelette or lint, a second filtering means disposed over the first filtering means, the said second filtering means comprising a plurality of layers of knitted cloth, and the said support means and the first and second filtering means being held together radially around a perforated sleeve and longitudinally between end support means.

CLASS 69F & H.  
Int. Cl.-H01h 29/00.

144475.

#### A DEVICE FOR SWITCHING OFF ELECTRIC SUPPLY TO AN INSTRUMENT WHEN THE DEVICE IS PLACED IN A PARTICULAR DIRECTION.

*Applicant & Inventor* : PHIROZE ARDESHIR PESTON JAMES, C/O. ARPHI INCORPORATED, PRABHADEVI INDUSTRIAL ESTATE, CADELL ROAD, BOMBAY-400025, STATE OF MAHARASHTRA, INDIA.

Application No. 102/Bom/76 filed March 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 2 Claims.

A device for switching off electric supply to an instrument when the device is placed in a particular direction comprising a sealed hollow glass capsule with a bulge in the centre, the capsule containing a mercury drop which just fills the bulge in its centre and two wire terminals anchored within the glass capsule along its length and projecting from one extremity of the capsule, the arrangement being such that the mercury

drop bathes both the wires when the capsule is rotated in any position except in the direction when the mercury drop fills the bulge in the centre of the capsule.

CLASS 58D.  
Int. Cl.-A47i 1/06.

#### A WINDOW PANES CLEANER.

*Applicant & Inventor* : RAMFESHCHANDRA KALIDAS PATEL, AT 3, GARDEN TERRACE, 11TH ROAD, SANTA CRUZ (EAST), BOMBAY-400055, STATE OF MAHARASHTRA, INDIA.

Application No. 255/Bom/76 filed July 26, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 7 Claims.

A window panes cleaner comprising two identically constructed members, each member being provided on its outer side with a manual grip and on its inner side with a rectangular piece of sponge held in a cavity, one or more concealed magnets in a recess, and a wiper-blade, the magnets in one member when facing the magnets in the other member having opposite polarities, the sponge pieces being soaked with cleaning liquid, one member being held on one side of the window pane with the wiper-blade and the sponge in contact with the window pane, the other member being held likewise on the other side of the window pane, the members being held firmly to the sides of the window pane, the members being held firmly to the sides of the window pane by magnetic attraction, the outer member following the movement of the inner member by reason of the magnetic attraction, the movement of each member being such that the surface of the window pane wetted by the sponge being wiped clean by the wiper-blade.

CLASS 10B. 144477.  
Int. Cl.-F42c 19/04.

A METHOD FOR PRODUCING LENGTH OF DETONATING FUSI-CORD AND A FUSE-CORD SO PRODUCED.

*Applicant* : IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILL-BANK LONDON, SW1P 3JF, ENGLAND.

*Inventor* : DANIEL STEELE.

Application No. 754/Cal/75 filed April 15, 1975.

Convention date April 22, 1974/(17496/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims.

A method for producing a length of detonating fuse-cord having at least one of its ends sealed by a heat-shrank cap of synthetics plastics film comprising placing a loose fitting cap of waterproof heat-shrinkable synthetic plastics film over the said end and heating the said cap to cause it to shrink tightly around the said end.

CLASS 129G. 144478.  
Int. Cl.-B26d 1/02, 7/08, B23b 27/16.

#### CUTTING INSERT.

*Applicant* : SANDVIK AKTIEBOLAG, OF FACK, S-811 01, SANDVIKEN 1, SWEDEN.

*Inventors* : AXEL SVEN OLOF ROOS, KURT HEINRICH ALBERT ERICH FABER AND SVEN AXEL OLOF WIRFELT.

Application No. 980/Cal/75 filed May 15, 1975.

Convention date January 23, 1975/(77552/75), AUSTRALIA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

A cutting insert for chip cutting operations a curved cutting tip portion therebetween, the insert further comprising two opposite end surfaces one of which constitutes a clearance face for the secondary cutting edge while the other constitutes an end abutment surface and at least four edge surfaces being angularly inter-related and constituting bottom a pair of said edge surfaces intersecting at the main cutting edge and constituting respectively a clearance face for that main cutting edge and a top surface of the insert, and a further pair of said edge surfaces located opposite said top surfaces extending longitudinally between said end surfaces, supporting surfaces, characterised in that said bottom supporting surfaces form an angle in the range 90° to 130° with each other and said top surface is provided with a bevel surface adapted to receive a clamping element and so oriented that the insert is urged at least partially in the direction of its end abutment surface.

CLASS 195C. 144479.  
Int. Cl.-F16k 5/12.

#### AN IMPROVED NEW STOP-COCK SYSTEM FOR GROUND CLASS JOINTS.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : NANDA KUMAR DAS.

Application No. 1815/Cal/75 filed September 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims.

An improved stop-cock system for ground-glass joints consisting of standard joint cone and socket fitted together, characterised in that the end of the cone is closed and the cone and the socket have two holes and two grooves respectively at diametrically opposite sides so that when on rotation the holes in the cone come in the same vertical line with the grooves in the socket the fluid flow is affected and when the cone is rotated at 90° from the grooves the flow of fluid is completely stopped.

CLASS 70C. 144480.  
Int. Cl.-B01k 1/00, C07c 17/00, 19/02.

#### IMPROVEMENTS IN OR RELATING TO THE ELECTROCHEMICAL PROCESS FOR THE PRODUCTION OF BROMOFORM FROM ACETONE.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : HANADY VENKATAKRISHNA UDUPA MYSORE SESAIYER VENKATACHALAPATHY AND SANKARANARAYANAIYER CHIDAMBARAM.

Application No. 1945/Cal/75 filed October 9, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 5 Claims. No drawings.

A process for the electrochemical production of bromoform from acetone using a graphite anode and stainless steel cathodes at a current density of 5 to 15 A/dm<sup>2</sup>, a temperature of 15 to 25°C and the pH of the electrolyte of 8.5 to 10.

CLASS 69D. 144481.  
Int. Cl.-H01p 36/00.

#### CURRENT-LIMITING AUTO-SWITCH.

*Applicant* : KOMBINAT VEB ELEKTRO-APPARATEWERKE BERLIN-TREPTOW, 1193 BERLIN-TREPTOW, HOFFMANNSTR. 15-26, GERMAN DEMOCRATIC REPUBLIC.

*Inventors* : LOTHAR ACKERMANN AND JOACHIM BUDDE.

Application No. 191/Cal/76 filed February 3, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

Current limiting auto-switch with a double-interrupting contact system, in which the mobile contact bridge is spring-coupled by means of the contact power spring with the switch traverse operated by the locking cam and in which the contact bridge along with the carriers of the fixed contacts forms electrodynamically effective current loops, which alone or in connection with an electromagnetic relay armature effect a take-off of the contacts independent of the locking cam, characterized thus, that on the contact bridge (1) engages an elbow lever system, consisting of two levers (5) hinged on the contact bridge (1), between which the contact power spring (9) engages and on each of which a side bar (4) is hinged, which in turn form a pair of elbow levers, that can be taken over the dead centre and are hinged with their elbow-joint point (6) on the switch traverse (3).

CLASS 68E.

144482.

Int. Cl.-G05f 1/00.

IMPROVEMENTS IN OR RELATING TO A CIRCUIT ARRANGEMENT AND MEANS FOR CONNECTING TRANSFORMER TO AN ALTERNATING VOLTAGE SOURCE.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, GERMANY (WEST).

*Inventors* : PETER KOLBE, WALTER SCHLUTER AND WALTER SCHMITT.

Application No. 981/Cal/76 filed June 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A circuit arrangement including a transformer, first switch means for connecting the transformer to an alternating voltage source, control means for controlling the time at which the said first switch means closes and circuitry which includes further switch means (C0, C7, C2, C3, C4, C5, C6, 6 or 11a, 11b, 6) and is controllable by the controller means for applying temporarily a direct current to a winding of the transformer via the further switch means before closure of the first switch means, so that a magnetisation is produced in the transformer which is opposite to the magnetisation produced by the connection of the transformer to the alternating voltage source by the first switch means.

CLASS 187C<sub>2</sub> & C<sub>4</sub>.

144483.

Int. Cl.-H04m 15/00.

AUTOMATIC TELEPHONE SYSTEM PROVIDED WITH MEANS OF PROTECTION AGAINST UNINTENTIONAL INTERRUPTIONS DURING REGISTER SIGNALLING.

*Applicant* : TELEFONAKTIEBOLAGET I M ERICSSON, OF S-126 25 STOCKHOLM, SWEDEN.

*Inventor* : MR KARL GUSTAV GOSTA VILHELM REDELIUS.

Application No. 1122/Cal/76 filed June 23, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Automatic telephone system provided with means of protection against unintentional interruptions during register signalling, comprising a telephone station in which a signalling equipment is arranged to receive a tone code signal

from a second telephone station via an incoming channel in a telephone connection between the telephone stations and to transmit a return signal to the second telephone station via an outgoing channel in the telephone connection to stop the transmission of the tone code signal, the signalling equipment comprising a receiver device which has a signal input connected to the incoming channel and an output arranged to feed out the information content of the tone code signal, a transmitter device which has an activation input and a signal output which latter is connected to the outgoing channel for transmission of the return signal in dependence on that the transmitter device is activated via the activation input, a register device which has an activation input and a write input which latter is connected to the output of the receiver device for registration of the information content of the tone code signal when the register device is activated via its activation input, and a control device which has an input connected to the output of the receiver device and an output connected to the activation inputs of the transmitter device and the register device and arranged to be activated in dependence on that the tone code signal is received and which comprises a first delay means for inhibiting after each activation of the output of the control device a continued activation of the output of the control device a continued activation of this during a predetermined first time interval within which the receiver device normally, as a consequence of signal delays between and in the telephone stations, continues to receive the tone code signal, characterized in that the control device comprises a second and a third delay means which have a respective output and are arranged to be activated after each activation of the output of the control device during a predetermined second time interval of a shorter duration than said first time interval and during a predetermined third time interval of a longer duration than the sum of said first time interval and the duration of the return signal, respectively, and a memory means which has an activation input connected to the output of the second delay means, a set input gated by the last-mentioned activation input and connected to the input of the control device and a reset input connected to the output of the third delay means to be set by an interruption in the tone code signal during said second time interval when the second delay means is activated and to be reset when said third time interval has elapsed and the activation of third delay means ceases and which in its set condition is arranged to inhibit that the output of the control device is activated.

CLASS 73.

144484

Int. Cl.-D06c 11/00.

A TEXTURIZING APPARATUS.

*Applicant & Inventor* : BINDU GANDHI, OF 17, CAMAC STREET, CALCUTTA, INDIA.

Application No. 1691/Cal/76 filed September 14, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A texturizing machine adapted to compact a web such as paper or fabric comprising a pressure or heated drive roller, a front and rear roller, either said front or rear roller being also a drive roller and the other being a driven roller, an endless rubber blanket traversing on said front and rear rollers and adapted to obtain a drive from the front or rear driver roller and such that the speed of the endless blanket is different to that of the heated roller, a nip roller adapted to apply a pressure on the front or rear drive roller characterized in a pump connected to a prime mover, the discharge of said pump connected to a first oil motor for driving one of said drive rollers and further connected to a second oil motor through a volume regulator for driving the other of said drive rollers.

CLASS 73

144485.

Int. Cl.-D06c 11/00.

A TEXTURIZING APPARATUS.

*Applicant & Inventor* : BINDU GANDHI, OF 17, CAMAC STREET, CALCUTTA, STATE OF WEST BENGAL, INDIA

Application No. 1692/Cal/76 filed September 14, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A texturizing machine adapted to compact a web such as paper or a fabric comprising a heated drive roller, a front and rear roller, either said front or rear roller being also a drive roller, an endless rubber blanket traversing on said front and rear rollers and adapted to obtain a drive from its drive roller, a nip roller coacting with said front or rear drive roller characterized in a drive system for said drive rollers and comprising a prime mover with an output shaft, said output shaft adapted to drive said heated roller through a pulley or sprocket chain assembly, said output shaft also connected to a fixed variable gear box having a clutch, the output shaft of said fixed variable gear box adapted to drive said front or rear roller through a pulley or sprocket chain assembly.

CLASS 104F.

144486

Int. Cl.-B29h 9/00, B32b 25/08.

**A PROCESS FOR PRODUCING HEAT STABLE RUBBER REINFORCED THERMOPLASTICS.**

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

*Inventors* : DAYA SHANKAR WADHWA, VIMALA RAMACHANDRAN, SANKARA RADHAKRISHNAN NAIB AND RAMAKRISHNA THRIVIKRAMAN THAM-PY.

Application No. 86/Del/77 filed April 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims. No drawings.

A process for producing heat stable rubber reinforced thermoplastics by grafting monomers onto polymethyl acrylate or its copolymers, characterised in that the grafting is carried out by suspension technique using vinyl and acrylic monomers as grafting monomers, a mixture of polyvinyl alcohol and hydroxy propyl methyl cellulose as suspending agents in the presence of lauroyl peroxide or benzoyl peroxide as catalyst and tertiary dodecyl mercaptan as a chain transfer agent.

CLASS 87D.

144487.

Int. Cl.-A63f 9/00.

**AN APPARATUS FOR THE GAME ANALYSIS.**

*Applicant & Inventor* : MRS. AMI ANUPAMA GANDHI, OF FLAT NO. 701, 'C' BUILDING, POONAM APARTMENTS, DR. ANNIE BESANT ROAD, WORLI, BOMBAY-400 018, STATE OF MAHARASHTRA, INDIA.

Application No. 275/Bom/76 filed August 12, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

4 Claims.

An apparatus for the game "Analysis" comprising an analysis board having

(A) Four Areas :

- (a) An area concealed by a shield comprising a row of five holes in which one of the players a Code Setter, sets a code by placing coloured code pegs in the said holes,
- (b) An area comprising of at least 12 rows of 5 holes each, in which the other player, the Code Breaker, to break the said code set by the said Code Setter in area 'a', places in the said holes, 5 coloured code pegs in one row;

(c) An area comprising of rows commensurate with the rows in area 'b' and each of these rows being adjacent to the said rows of area 'b', each of the said rows of area 'c' comprising 5 small holes, in which the code breaker has made an attempt to break the code, the arrangement being such one kind of score peg is awarded for even correct coloured code peg inserted by the code breaker in the wrong position.

(d) An area comprising two columns of holes in which scoring pegs are inserted to mark the number of attempts by each of the player to break the code in their corresponding columns

(B) 2 Reservoirs for containing the code pegs and the score pegs.

(C) Code pegs comprising of pegs of atleast 8 different colours adapted to be inserted in area 'c' there being at least 20 pegs of each of the said colours.

(D) Score pegs comprising of two types of pegs of different colours or otherwise dissimilar there being atleast '30' of each type adapted to be inserted into the holes in area 'C'.

CLASS 206E .

144488.

Int. Cl.-H011 9/00.

**IMPROVED ZENER DIODE FOR INTEGRATED CIRCUITS.**

*Applicant* : RCA CORPORATION, OF 30 ROCKEFELLER PLAZA, NEW YORK, NEW YORK, 10020, UNITED STATES OF AMERICA.

*Inventor* : LEONARD TESLENKO.

Application No. 196/Cal/75 filed February 1, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A semiconductor device (10) comprising : a body of semiconductor material (14) having a surface (18), means defining a zener diode (12) in said body (14) comprising a first region (22) of one type conductivity containing two diffused portions (24, 26) one of said portions (24) having a high maximum impurity concentration and having a boundary (28) at a predetermined depth with respect to said surface (18), the other portion (26) being diffused in overlapping relation to less than all of the first portion (24) and having a significantly lower maximum impurity concentration in that portion thereof which does not overlap the first portion (24) and a boundary (30) at a significantly lesser depth than said one portion (24), said body (14) containing a second region (34) of opposite type conductivity within both portions of said first region and separated from each by a PN junction (36) characterized by at least a part of the PN junction (36) being within the zones of maximum impurity concentration of each by being located within said one portion (24) outside the zone of overlap between said two portions (24, 26) of said first region (22), said second region (34) having a depth within said other portion (26) of said first region (22) which is greater than the depth within the one (24) of said portions of said portions of said first region (22), and an electrical contact (42) to said second region (34) only over said other portion (26) of said first region (22).

CLASS 172C.

144489.

Int. Cl.-D01g 15/02.

**IMPROVED CARDING MACHINE.**

*Applicant* : MACHINERY MANUFACTURERS CORPORATION LIMITED, OF P. 61B CIRCULAR GARDEN REACH ROAD, CALCUTTA-43, WEST BENGAL, INDIA.

*Inventors* : DR. CHANDRESHEKHAR SASTRY AND DR. TUSHAR KANTI GHOSH.

Application No. 755/Cal/75 filed April 15, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims.

An improved carding machine having a dosser, stripping roller, a pair of pressure rollers for crushing the web and a pair of control rollers, characterised in that a second rotating stripping roller is provided in between said pair of pressure rollers and said pair of control rollers, said second stripping roller being adapted to be disposed in relation to said pair of pressure rollers such that the second stripping roller works in close operation with the pressure rollers and a predetermined substantially uniform distance is always maintained between the surface of said second stripping roller and those of the pressure rollers throughout their lengths, whereby a major portion of all fibres is removed by said second stripping roller from the surfaces of said pressure rollers, thus permitting even crushing action of the pressure rollers to be maintained without provision of any arrangement for controlling the relative humidity in the surrounding atmosphere.

CLASS 127C. 144490.

Int. Cl.-F16h 9/04

**IMPROVED TWO-SPEED MOTION TRANSMISSION SYSTEM.**

*Applicant :* MACHINERY MANUFACTURERS CORPORATION LIMITED, OF P-61B CIRCULAR GARDEN REACH ROAD, CALCUTTA-43, WEST BENGAL, INDIA.

*Inventors :* SHYAMAL CHATTERJEE AND DR. CHANDRASHEKHAR SASTRY.

Application No 756/Cal/75 filed April 15, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

An improved multi-speed motion transmission system for driving a machine or a part of a machine, comprising an assembly of more than one driven pulleys of equal diameter and being equidistantly disposed in relation to each other, a compound drive pulley having at least two different diameters for driving the driven pulleys at two different speeds through endless conveyors and a means to change the position of said conveyors in relation to said drive pulley and the driven pulleys such as to cause change in rotating speed of the output shaft of the driven pulleys, characterised in that at least one of the driven pulleys driven at a slower speed compared to the other speed, is mounted on said output shaft through a free-wheel clutch, the latter being fixed to the output shaft and being adapted to correlate the rotating speed of the output shaft with that of said pulley driven at a slow speed, whereby sudden braking impulse caused due to transition of the conveyors for effecting change in rotating speed of the output shaft, is eliminated.

**PRINTED SPECIFICATION PUBLISHED**

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8 Hastings Street, Calcutta, at two rupees per copy :—

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**COMMERCIAL WORKING OF PATENTED INVENTIONS**

The following patents in the field of General & Mechanical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970, in respect of Calendar year 1976 generally on account of want of requests for licences to work the patented inventions. Persons who are interested to commercially work the said patents may contact the patentee for the grant of a licence for the purposes.

S.	Patent No.	Date of Patent	Name and address of the Patentee	Brief title of the invention
1	2	3	4	5
(1)	136147	25-08-1972	International Housing Ltd., P.O.B., 1379, Pembroke, Bermuda.	System for making cast in place of concrete structures.
(2)	136152	29-07-1972	Girling Limited, Kings Road, Tyseley, Birmingham 11, England.	Brake pressure control valves.

1	2	3	4	5
(3) 136164	28-04-1972	Snamprogetti SPA, 16, Corso Venezia, Milan, Italy.	Vehicles	
(4) 136171	27-07-1972	Industrie Pirelli SPA, Centro Pirelli, Piazza Duca d'Aosta No. 3, Milan 20100, Italy.	Pneumatic tyres for vehicle Wheel.	
(5) 136186	22-11-1972	Girling Ltd.; Kings Road, Tysley, Birmingham 11, England.	Brake shoe adjuster.	
(6) 136191	25-01-1973	Max Gerhauer; 844, Stranling Niederlayerm, Stadtguabanzl GFR.	An extruded roofing tile.	
(7) 136207	11-10-1972	Clayton Dewandre Co. Ltd., Titanic Works, Lincoln, England.	Improved differential protection. valve for vehicle braking system.	
(8) 136208	22-06-1972	Ingersoll-Rand Co.; 200 Chestnut Ridge Road, Woodcliff Lake, New Jersey, U.S.A.	Automatic feed control system for drilling machine.	
(9) 136214	30-05-1972	Actief N.V.; Handelskade 24, Willemstad, Curacao, Netherlands.	Fasterner.	
(10) 136227	20-06-1972	Fichtel & Sachs AG; 872, Schweinfurt am/Main, Ernst-Sachs, Strasse, 62 F.R. of Germany.	A combustion engine.	
(11) 136230	14-08-1972	Societe D' Applications De Products, Industries Et Chemiques, 32 rue Andrea Cayron, 92 Asnières, France.	Manufacture of solid or hollow bodies used especially for coring and moulding in foundry.	
(12) 136231	31-08-1972	C.A.V. Limited, Well Street, Birmingham 19, England.	Liquid fuel injection pumping apparatus.	
(13) 136233	09-05-1972	USS Engineers & Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Self aligning & flexing guide roll rack for continuous casting machines.	
(14) 136234	09-05-1972	Do. Do.	Continuous casting machine.	
(15) 136256	10-05-1972	The Loveshaw Corp.; 61 East Industry Court, Deer Park, Long Island, N.Y. U.S.A.	Single motor driver of forming Winder collet.	
(16) 136259	29-09-1972	Envirotech Corp.; 537, West 6th South Salt Lake City, Utah-U.S.A.	A feedwell for receiving feed and discharging it into a sedimentation pool.	
(17) 136278	08-08-1972	Envirotech Corp.; as above.	Rocking structure for urging sediment in sedimentation tanks.	
(18) 136279	17-02-1973	Thyssen Niederrhein AG; 42, Oberhausen, Essener Str., 66, F.R.G.	Flap type closure on draw off apparatus for spongy iron.	
(19) 136287	29-08-1972	Ge rand Blum; 12, rue pant prouiller, La Tronche, Isere, France.	Measurement of the area of flat flexible Article.	
(20) 136302	10-01-1973	F. L. Smidth & Co., A/S, 77 Vigerslev Alle, Copenhagen-Valby, Denmark.	Rotary Kilns.	
(21) 136330	15-01-1972	Ethicon Inc; Somerville, New Jersey, U.S.A.	Retention suture bridge.	
(22) 136347	29-06-1972	Dorr-Oliver Inc; TTHavemeyer Lane, Stamford, Connecticut, U.S.A.	Air pressure actuated double acting diaphragm pump.	
(23) 136350	21-06-1972	Westinghouse Electric Corp. Pittsburgh, Pennsylvania, U.S.A.	Thermosettable pressure sensitive adhesive tape.	
(24) 136351	23-07-1971	Abildgaard Laboratories Limited 857, Monte Avenue Mountain view, California, 94040, U.S.A.	Forming cased books and cased books made thereby.	
(25) 136354	03-05-1972	Dunlop Limited; Dunlop House, Ryder Street, St. Jame's London S.W. 1.	Pneumatic tyres for aeroplanes.	
(26) 136369	08-03-1972	Imperial Chemical Industries Ltd., Imperial Chemical House, Millbank, London, S.W. 1, England.	Wound clip applicator.	
(27) 136384	22-08-1972	Thermo King Corp.; Minneapolis, Minnesota, U.S.A.	Transportable refrigeration Unit having induction alternator, Induction Motor Reconnection and control system.	
(28) 136387	28-09-1972	USS Engineers and Consultants Inc. ; 600 Gant Street, Pittsburgh, Pennsylvania, U.S.A.	Continuous Casting by means of vertically descending starter bar.	

1	2	3	4	5
(29)	136398	13-12-1972	Knorr Bremse, GmbH, 80 Maosacherstrasse, 8 Munichen, F R of Germany.	Control valve for pressure air brake installations on railway vehicle.
(30)	136404	12-06-1972	Thomas Walker Ltd., 39 St., Paul's Square, Birmin- gham B3 1QY, England.	Backing member for garment fastening device.
(31)	136409	11-09-1972	Mefina S.A., 5A Boulevard de Perolles, Fribourg, Switzerland.	Fuse for non-gyratory missiles.
(32)	136413	21-03-1973	Stemense AG; Berlin & Munich, West Germany.	Temperature Control System.
(33)	136422	11-07-1972	S.A. des Anciens Establishments Paul Wurth, 32 rue, d' Alsace, Grand Duchy of Luxembourg.	Improvements in shaft furnace charging equipment.
(34)	136423	29-06-1972	Dorr-Oliver Inc.; 77 Havemeyer Lane, Staniford, Connecticut, U.S.A.	Diaphragm Pumps.
(35)	136430	27-06-1972	Aikoh Co., Ltd., 1-39, 2-Chome, Ikenchata, Jaitoko, Tokyo, Japan.	Forming ingots of molten metal.
(36)	136434	16-05-1972	Betelingungs A.G.; Fur Housste-chnik, Glarus, Swit- zerland.	Green House.
(37)	136438	24-04-1972	Snamprogetti S.p A. Corso Venezia, Milan, Italy, and protezione Recerca Industrial S.A.; Lugano, Suiz- zera, Vie Pretorio, 7.	A microcontainer & its produc- tion.
(38)	136448	22-12-1972	USS Engineers & Consultants Inc.; 600 Grant street, Pittsburgh, Pennsylvania, U.S.A.	Method and apparatus for cutting a continuously formed casting into short length segments.
(39)	136453	27-06-1972	Spiral Corp., Ltd., 385 Dawson Road, Minnipeg, Manitoba, Canada.	Device for forming shear keyway on sides of extruded construc- tions stakes and the like.
(40)	136454	12-06-1972	James A Mackenzie, 100 Branson Avenue, Ottawa, Ontario, Canada.	Constructional element.
(41)	136465	08-06-1972	Imperial chemical Industries Ltd., Imperial Chemical House, Millbank, London, S.W. 1, England.	Laminated products.
(42)	136472	15-03-1973	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Fluid Level Indicating Device.
(43)	136476	06-12-1972	William S- Rouvero <sup>1</sup> , 219 Benita, Sausalito, California, 94965, U.S.A.	Rolling contact gearing.
(44)	136482	10-11-1972	Industrie Pirelli SpA, Centro Pirelli, Piazzd, Duca d' Aosta No. 3 Milan 20100, Italy.	Radial ply pneumatic tyres
(45)	136483	13-12-1972	Marcona Corp.; 1 Maritime Plaza, San Francisco, California, U.S.A.	Liquid Jet Nozzle.
(46)	136486	06-11-1972	Parks Cramer Co.; P.O. 444, Fitchburg, Massa- chusster, U.S.A.	Apparatus for and the step of interrupting supply of strand in a method of forming yarn in a yarn forming mach- ine.
(47)	136490	06-07-1972	Tseutralny Nauchno etc.; Gorky Moskovskse Shosse, 85, U.S.S.R.	Preparation of material of lubrication of external surface of drilling string.
(48)	136497	29-08-1972	Mc Neil Corp.; 96 East Crosier Street, Akron, Sum- mit, Ohio 44311, U.S.A.	Apparatus for retreading tyres.
(49)	136505	07-09-1972	Odessky Zavod Pressor; Odessa, Zastavol Stolboraya, Ulitsa, 28, U.S.S.R.	A hydraulic press for fitting a wheel on an axle.
(50)	136509	05-01-1973	Caterpillar Tractor Co.; 100 N.E. Adams Street, Pearl, Illinois-61629, U.S.A.	Air cooled resilient coupling assembly.
(51)	136520	20-09-1972	Envirotech Corp.; 537 West 6th South, Salt Lake , city, Utah, U.S.A.	A filter press.
(52)	136526	30-08-1972	Foster Wheeler (India) Ltd., P.O. Box 62, Foster, Wheeler House, Chapal Street, London, N.W. 1, England.	Reforming furnaces.
(53)	136529	10-10-1972	Caledonian Mining Co. Ltd. Carlton House, Carlton House, Carlton-on-Trent, Nr. Neward, England.	Method of supporting the roof and walls of an underground tunnel.
(54)	136531	26-04-1973	Ishikawajima-Harima Jukogyo K.K. 2-1,2-Chome, Ote, machi Chityda-Ku, Tokyo, Japan.	Furnace.
(55)	136539	03-08-1972	Binks Bullows Ltd.; Pelsall Road, Brownhills, Staffor- shire WS 8 7 AW, England.	Liquid spraying apparatus.
(56)	136546	05-09-1972	Vandervell Products Ltd., Norden Road, Maiden- head, Berkshire, England.	Bearings for railway vehicle axles.

1	2	3	4	5
(57) 136550	17-02-1973	Thyssen Niederrhein AG; 42 Oberhausen, Essen Street, 66, F.R. of Germany.	Draw-off apparatus for drawing off spongy iron.	
(58) 136551	17-02-1973	Thyssen Niederrhein AG; 42 Oberhausen, Essen Street 66, FR of Germany.	Discharging apparatus for spongy-iron.	
(59) 136563	16-11-1972	Kelvinator Inc; 1545 Clyde Park Avenue S.W. Grand rapids, Michigan, U.S.A.	Manufacture of heat exchanger wall assembly and refrigerator unit having same.	
(60) 136564	11-10-1972	Carrier Corp.; Syracuse, New York, U.S.A.	Thermostat Chatterprotection for refrigeration compressor motors.	
(61) 136575	14-08-1972	USS Engineers and Consultants Inc; 600 Grant Street Pittsburgh, Pennsylvania, U.S.A.	Straightening continuous casting.	
(62) 136587	20-02-1973	Elitex Zavody Textilniho Strojirnetvi, Liberec, Czechoslovakia.	Device for washing rotary stencils for printing web materials particularly textiles.	
(63) 136605	27-07-1972	Industrie Pirelli SpA; Centre Pirelli, Piazza Duca d'Aosta No. 3, Milan 2100, Italy.	Pneumatic tyre for vehicle wheels.	
(64) 136606	07-09-1092	Serek Industries Ltd., Warwick Road, Birmingham, Warwickshire, England.	Liquid cooler device.	
(65) 136612	24-07-1972	D.H. Prouse & Co. Ltd.' Kety's studio, Battishill, Redhill, Surrey, England.	Abrasive articles for polishing grinding or the like.	
(66) 136616	07-02-1973	Intercole Automation Inc; 12011 Van Vicente Blvd., Los Angeles, California, U.S.A.	Mixing apparatus.	
(67) 136623	27-05-1972	USS Engineers & consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Sliding gate closure mechanism for controlling flow of molten metal.	
(68) 136632	29-03-1973	Pavel Alexandrovich Shevina Grazhdensky Prospect 94, Kopusil, KV 103, Leningrad, U.S.S.R.	Chuck for miniature cylindrical parts.	
(69) 136633	11-05-1973	The goodyear tyre and Rubber Co.; 1144 East Market street, Akron, Ohio, U.S.A.	Apparatus for monitoring the condition between two elements.	
(70) 136654	03-04-1973	Mefina S.A.; 5A, Blvd. de Parolles, Fribourg, Switzerland.	Assembly comprising a presser foot and a graduated rule particularly for measuring the length of the seam in the course of sewing operation.	
(71) 136655	25-10-1972	Sealed Power Corp.; 2001 Sanford Street, Muskegon Michigan, 49443, U.S.A.	Pistons for combustion engines.	
(72) 136662	27-07-1972	The K.A.P. Ltd., 38 Mount Road, Madras-6 India.	Hammer Drill.	
(73) 136676	03-10-1973	Takata Kogyo Co.; No.10, Mor Bldg., 28 Sakuragauchō, Nishikuho, Shiba, Minato-ku, Tokyo Japan.	Pipe laying apparatus.	
(74) 136679	23-02-973	Skoda Oborovy Podnik, Plazen, Czechoslovakia.	Vulcanizing Press.	
(75) 136684	05-01-1973	Caterpillar Tractor Co., 100N.E. Adams Street, Peoria, Illinois, 61629, U.S.A.	Track type vehicle with modular final drive.	
(76) 136685	15-12-1972	Molina S.A.; 5A Blvd., de Proles, Fribourg, Switzerland.	Ironing press.	
(77) 136705	25-10-1972	Sperry Rand Corp.; Crooks & Maple Roads, Troy, Michigan, 48084, U.S.A.	Control system for a variable ratio hydrostatic transmission,	
(78) 136706	25-10-1972	Do.	Do.	A displacement adjusting system for a variable displacement pumps.
(79) 136710	04-01-1973	Caterpillar Tractor Co.; 100 N.E. Adams Street, Peoria, Illinois-61629, U.S.A.	Hydraulically powered drive and steering system for track type vehicle.	
(80) 136711	21-04-1973	Girling Limited, Kings Road, Tyseley, Birmingham 11, England.	Railway vehicle disc. brakes.	
(81) 136725	10-11-1972	Do.	Do.	Internal shoe drum brakes,
(82) 136726	9-10-1972	Veb Polygraph; 59 Zweinaundarjer Strasse, 705, Leipzig, East Germany.	Equipment for continuous folding of flexible sheets.	
(83) 136729	26-07-1972	Sealed Power Corp.; 200; Sanford Street. Muskegon, Michigan-49443, U.S.A.	Apparatus for making latch in a piston ring expander.	
(84) 136735	09-11-1972	Ruti Machinery Works Ltd.; 8630 Ruti, Zurich, Switzerland.	Clamping device on shuttle.	

1	2	3	4	5
(85)	136740	27-09-1972	C.A. Norgren Ltd., 192-198 Vauxhall Bridge Road, London, S.W. 1.	Valve device for draining liquid contaminant collected from compressed gas.
(86)	136754	03-01-1973	Einhart Corp.; 426 Colt Highway, Farmington, Connecticut 06032, U.S.A.	Means for detecting foreign particles in liquid containers.
(87)	136764	16-06-1971	Dunlop Holdings Ltd., Dunlop House, Ryder Street, St. Jame's, London, S.W. 1, England.	Treating deflated tyre.
(88)	136770	12-1-1973	Sulzer Brothers Ltd.; Winterthur, Switzerland.	Thread grippers for textile machines.
(89)	136782	03-12-1971	U.S. Amonda Ltd.; 615, 8th Avenue South Seattle, Washington, U.S.A.	Punch Press.
(90)	136783	03-12-1971	Do.	Punch press.
(91)	136800	29-07-1972	Girling Ltd.; King Road, Tyseley, Birmingham 11, England.	Brake pressure control valve.
(92)	136827	10-08-1972	Dunlop Ltd.; Dunlop House, Ryder street, St. Jame's London S.W. 1.	Tyre and wheel rim assemblies.
(93)	136836	22-09-1972	Eli Lilly & Co., 740 South Alabama Street, Indianapolis, Indiana, U.S.A.	Optical system for capsule inspection.
(94)	136839	29-09-1972	The Lucas Electrical Co. Ltd., Well Street, Birmingham 19, England.	Friction welding apparatus.
(95)	136852	13-09-1972	Snamprogetti S.p.A., 16 Carso Venezia, Milan, Italy.	Production of continuous bicomponent bulky yarns.
(96)	136855	26-09-1972	Dunlop Ltd., Dunlop House, Ryder Street, St. Jame's London, S.W. 1, England.	Pneumatic tyres.
(97)	136856	24-08-1972	USS Engineers and Consultants Inc.; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.S.	Mechanism for removal of roll rock in a continuous casting installations.
(98)	136859	25-07-1973	Prerovak Strojirny; Prerov, Czechoslovakia.	Preheating granular materials.
(99)	136873	13-10-1972	C.A.V. Ltd.; Wall Street, Birmingham 19, England.	Liquid fuel pumping apparatus.
(100)	136895	04-12-1973	The Textile & Allied Industries Research Organisation; Kala Bhavan Premise, Baroda-390001, India.	Stop motion device for spinning machine.
(101)	136901	02-12-1972	The Bandix Corp.; 401 North Bandix Drive, South Bend, Indiana, U.S.A.	Air hydraulic parking emergency brake control system.
(102)	136902	19-03-1973	Elkem-Spigerverket A/S; Elkomhuset, Middlethunsgate 27, Oslo 3, Norway.	Arrangement for selective discharge of solid material from hoppers etc. <sup>1</sup>
(103)	136908	03-10-1973	Schubert & Salzer Masehin Akt, 8070, Indalstadt, Friedrich, Ebertstrasse 84, West Germany.	Apparatus for continuously winding threads on a tube.
(104)	136911	08-09-1972	Deere & Co.; Moline, Illinois, U.S.A.	Hydraulic systems for and more particularly to the attenuation of pressure pulsation in hydraulic circuit.
(105)	136912	14-06-1972	Societe National Elf Aquitaine; Tour Aquitaine, 92 Courbevoie, France.	Arrangement for the seismic exploration of a medium, such as earth by transmitting thereinto mechanical energy signals.
(106)	136923	21-08-1972	USS Engineers & Consultants Inc.; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Method and apparatus for a continuous casting of a particularly solidified strand of metal.
(107)	136925	03-02-1973	Hudswell Morrice Ltd.; Jack Lane, Leads 10, Yorkshire, England.	Driving and extraction of sheet piles.
(108)	136932	14-11-1972	(1) P.N. Rao, (2) H. N. Gupta, both of National Sugar Institute, U.P. India.	A device for cutting sugar-cane.
(109)	136934	26-09-1972	Westinghouse Electric Corp.; Pittsburgh, Pennsylvania, U.S.A.	Twin motor drive system.
(110)	136935	10-10-1972	Globe Union Inc.; 57 Northgreen, Bay Avenue, Milwaukee, Wisconsin, 53201, U.S.A.	Case for storage battery.
(111)	136970	08-03-1973	Ruti Machinery Works Ltd; Casper Hanegger 8630 Ruti, Zurich, Switzerland.	Nozzle for producing a jet of a fluid for inserting weft threads in a shed on a loom.
(112)	136971	02-11-1972	Battelle Development Corp.; 505 King Avenue, Columbus Ohio 43201, U.S.A.	Concrete structural member.
(113)	136972	15-02-1973	Fitchel & Sachs AG; Ernst-schs Strasse 62, G.F.R.	Multispeed transmission hub the braking operation whereof is unaffected by the engagement position of the drive.

1	2	3	4	5
(114) 136979	26-03-1973	Commonwealth Scientific & Industrial Research Organization; Limestone Avenue, Territory, Commonwealth of Australia.	Apparatus for producing a twisted and piled yarn.	
(115) 136993	09-07-1973	Ruti Machinery Works Ltd.; 8630 Ruti, Zurich, Switzerland.	Loom.	
(116) 137001	09-06-1972	Nederlandsche Wapen-en P.O. Box 50's Hartogen - basch, Netherlands.	Grenade Adapter.	
(117) 137011	11-09-1972	Intermenua (Proprietary) Ltd.; 25th Floor, Trust, Bank Centre, Corner Main & Eloff Street, Johannesburg, Republic of South Africa.	Shearing machines.	
(118) 137015	13-10-1972	Johnson & Jonson; 501 George Street, New Brunswick, New Jersey, U.S.A.	A normally tacky and pressure sensitive adhesive tape.	
(119) 137035	21-09-1972	Union Carbide Corp.; 270 Park Avenue, New York, N.Y. 10017, U.S.A.	Apparatus for casting metal objects.	
(120) 137037	28-11-1972	Dunlop Ltd.; Dunlop House, Ryder Street, St. James's London, S.W. 1, England.	Valve assemblies for pneumatic tyres.	
(121) 137038	06-01-1973	Girling Limited; Kings Road, Tyseley, Birmingham 11, England.	Pistons.	
(122) 137045	20-02-1973	Elastic Rail Spake Co. Ltd., 7 Rolls Building, Fetter Lane, London E.C. 4A 1JB, England.	Rail fastening device and railway track assemblies including such devices.	
(123) 137063	26-02-1973	Monsanto Co.; 800 North Lindbergh Blvd., St., Louis Missouri 63166.	Twisted steel wire strand cord.	
(124) 137084	15-06-1973	S.A. des Anciens Establishements Paul Worth, 32 rue, d' Alsace, Luxembourg.	Drive mounting mechanism blast furnace charge distribution apparatus.	
(125) 137087	22-09-1972	Stadt Wein, Rajhaus, Vienna, 1, Australia.	Ventilating system for underground railways.	
(126) 137088	03-10-1972	Dresser Industries Inc.; Republic National Bank Bldg., P.O. Box 718, Dallas, Texas, 75221, U.S.A.	Condition responsive gauge instrument.	
(127) 137089	21-11-1972	Fichtel & Sachs AG; 872 Scheinfurt Am/Main Ernst-Sachs Strasse 62, F.R. of Germany.	Multispeed hub with two driven members on the side of the planetary gearing remote from the drive.	
(128) 137090	28-11-1972	Sandvik Aktibolag; Fack S-811 01, Sandviken 1, Sweden.	Milling Cutters.	
(129) 137091	15-12-1972	Roger Paul Sonneville; 5 rue Maurice, Ravel, 92 Saint Cloud, France.	Reinforcing device for an element of prestressed concrete.	
(130) 137098	13-09-1972	Beteiligungs AG; Glarus, Switzerland	Device for the absorption and release of heat such as building panels.	
(131) 137106	23-03-1973	Caterpillar Tractor Co.; 100 N.E., Adams Street, Peoria, Illinois 61629, U.S.A.	Flexible seal.	
(132) 137110	05-04-1973	J&J Dyson Ltd., Griff's Works, Stannington, Sheffield S5, 6B W England.	Means for controlling the flow of molten metal from a container.	
(133) 137112	24-08-1973	Ruti Machinery Works Ltd., 8630 Ruti Zurich, Switzerland.	Temple Roller.	
(134) 137120	05-05-1973	Fr. Mettlers Sons Ltd., 6415, Arth, Switzerland.	Apparatus for singeing threads.	
(135) 137134	25-01-1973	N. Krishnan, of 3, Puram 2nd Street, Madras-14, India and V. Ramachandran, 2A Sir. C. V. Raman Rd., Madras-18, India.	Mechanical clamps.	
(136) 137142	05-02-1972	Joseph Lucas (Industries) Ltd., Great Kings Street Birmingham, England.	Control apparatus for an I-C Engine Fuel Injection system.	
(137) 137144	19-10-1972	Guest Keen & Netherfolds (Aust.) Ltd., 145-151, Arthur street, Homebush, West New South Wales, Australia.	Wheel rims.	
(138) 137155	09-10-1972	Foster Wheeler Corp.; 110 South Orange Avenue, Livingstone, New Jersey, U.S.A.	Erosion, resistant sensing device.	
(139) 137156	13-10-1972	Veb Werkmaschinen Karl-Marx-Stadt, 90 Karl Kark Stadt, Anabergstr 73, G.D.R.	A crochet gallon machine.	

1	2	3	4	5
(140)	137162	17-03-1973	S.A. des Anciens Establishment Paul Wurth, 32 rue d' Alsace, Luxembourg.	Metering device for the control of the material flow when charging shaft furnaces.
(141)	137168	27-01-1973	Jawa Narodni Podnik, Tynec and Sazavou, Czechoslovakia.	Vehicle wheel.
(142)	137173	05-05-1973	Aktiengesellschaft Fr Mettlers Sohne, Maschinenfabrik 6415, Arth, Switzerland.	Mounting device for tapering tubes.
(143)	137174	30-09-1972	McNeil Corp., 96 East Crosier Street, Akron Ohio-44311, U.S.A.	Press for shaping and curving tyres.
(144)	137175	10-08-1972	Dunlop Ltd.; Dunlop House, Ryder Street, St. James's London S.W. 1, England.	Pneumatic tyres.
(145)	137177	24-04-1972	Do.	Road surfacing materials.
(146)	137194	20-06-1973	USS Engineers & Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Curved roll-rack frame construction.
(147)	137209	20-10-1972	Joseph Lucas Electrical Co. Ltd., Well street, Birmingham, 19, England.	Braking system for vehicles.
(148)	137232	17-03-1973	S.A. des Anciens Establishments Paul Wurth, 32 rue, d' Alsace, Luxembourg.	Metering installation for shaft furnace particularly blast furnaces.
(149)	137256	03-09-1973	Raj Kumar, Kashmir Road, Balata, Punjab, India.	Thresher for paddy or like material.
(150)	137262	12-02-1973	Charles Weston & Co., Ltd., Douglas Green, Pendleton, Salford MG 6FT, Lancashire, England.	Sealing rings.
(151)	137263	05-01-1973	Caterpillar Tractor Co.; 100 N.E. Adams street, Peoria, Illinois, 61629, U.S.A.	Gear drive mechanism for excavators.
(152)	137264	02-01-1973	Girling Ltd.; Kings Rd., Tyseley, Birmingham 11, England.	Automatic adjuster for shoe-drum brakes.
(153)	137282	02-01-1973	Prerovske Strojirny Narodni Podnik Prerove, Czechoslovakia.	Apparatus for indicating the level of bulk and pulverulous materials in the hopper.
(154)	137284	08-03-1973	Bennes Marrel; Rue Pierre Copel, Saint-Etienne (L'Aire) France.	Advancing support device for coal and ore extraction works.
(155)	137291	19-12-1972	The Lucas Electrical Co. Ltd., Well Street, Birmingham 19, England.	Spark ignition system.
(156)	137294	13-12-1972	Knorr-Bremse GmbH, 80 Moosacher strasse, Munichen 13, F.R. of Germany.	Control valve for pressure air brake installation in railway vehicles.
(157)	137299	24-11-1972	ICI Australia Ltd.; 1, Nicholson street, Malbourne, Victoria, Australia.	Cusplated sheets and a process and apparatus for manufacture of the same.

**PATENTS DEEMED TO BE ENDORSED WITH  
THE WORDS "LICENCES OF RIGHT"**

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

*No. & Title of the invention*

- 86401 (20-4-72) Improvements or relating to process for preparing cyclopentanophenanthrene derivatives.  
 111347 (20-4-72) Process for producing alpha-aminoacid.  
 116721 (20-4-72) Process for the electrophilic fluorination of unsaturated organic compounds.  
 118287 (20-4-72) Process for the manufacture of new heterocyclic compounds.

118322 (20-4-72) Process for the production of aryl sulfonyl semicarbazide containing heterocyclic cycloamino group.

119145 (20-4-72) A process for the manufacture of an oral preparation.

126866 (29-5-70) A process for preparing polyester resins containing 5 membered imide rings and use thereof.

127399 (4-7-70) Process for the enzymatic solubilisation of tea cream and a water soluble tea concentrate containing such solubilised tea cream.

129079 (2-11-70) Improvements in or relating to preparation of powdered iron.

129260 (17-11-70) A process for production of azo compounds of low solubility and plastics pigmented with the same.

129605 (20-4-72) Preparation of tertiary amines.	125093 125113 125356 125390 125406 125481 125604 125709
132057 (20-4-72) Process for the preparation of antibiotic tuberactinomycii-N.	125757 125894 125895 126205 126222 126281 126406 126416
134531 (8-2-72) Improvement to high boiling ester purification.	126513 126529 126600 126677 126698 126742 126775 126778
134551 (9-2-72) Process for polymerization of conjugated dienes.	126803 126810 126839 126898 126901 126916 126917 126918
135345 (19-4-72) A process for the preparation of catalysts for the polymerization of olefines.	126919 126920 126921 126922 127028 127243 127289 127373
135619 (7-6-72) Process for preparing benzo [b]. thiophene derivatives.	127420 128823 128935 129498 130123 130438 130442 130551
135682 (1-11-72) Process for the preparation of new eburnamine alkaloids.	130609 130610 130744 130821 130829 130834 130844 130849
135705 (4-9-72) Process for producing pyrimidine derivatives	130873 130874 130875 130877 130932 131000 131119 131120
135719 (4-7-72) A process for the preparation of the asymmetrical ddt analogues.	131122 131160 131248 131389 131394 131439 131460 131605
135725 (9-10-72) A process for reducing vat ayer in a continuous dyeing plants for textile processing	131718 131743 131900 131909 131959 132337 132922 133000
135730 (30-6-72) The manufacture of aluminater.	133077 133279 133505 134121 134316 134439 134557 134641
135746 (25-5-72) Process for preparing 1, 3-dihydro-3-hydroxy-5-phenyl-2H-1, 4-benzodiazepin-2-one, substituted diamino acetate esters and their acid salts.	134964 134975 135047 135127 135159 135160 135177 135186
135772 (20-4-72) Process for the preparation of quinazolone-diurethanes.	135199 135204 135227 135265 135272 135370 135522 135799
135789 (20-12-72) Process for the manufacture of anthraquinone-sulphonic acids.	135835 135910 135961 135962 136017 136155 136166 136251
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	136904 137067 137120 137128 137173 137192 137370 137425
	137507 137618 138102 138136 138151 138189 138206 138207
	138245 138252 138257 138282 138503 138516 138576 138601
	138646 138807 138830 138833 138875 138878 138896 138930
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	139450 139510 139516 139517 139842 139847 139872 139887
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## RENEWAL FEES PAID

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110607 110644 110714 110817 110821 110845 110954 110960
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## CESSATION OF PATENTS

106896 106909 106926 106969 106976 106997 106999 107018
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107159 107167 107183 107185 107190 107206 107213 107230
107239 107255 107278 107315 107327 107328 107329 107365
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107685 107686 107698 107700 107706 107710 107759 107760
107776 107777 107792 117652 128412 138087

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 14380. Veer Industries (India), Bagpat Road, Meerut, U.P. (An Indian partnership concern). "Stove". March 25, 1977.

Class 1. No. 145520. Hytech Industries, 5/3, Central Road, Udhna (Dist. Surat) Gujarat, India, an Indian Proprietary firm. "Tool holder with clamp". May 9, 1977.

- Class 1. No. 145521. Eyttech Industries, 5/3, Central Road, Udhna (Dist. Surat) Gujarat, India, an Indian Propreterory firm. "Tool holder". May 9, 1977.
- Class 1. Nos. 145541 & 145542. Texmaco Limited, Belgharia, Calcutta-56, State of West Bengal, India, an Indian Company. "Sheet metal apron bridge bar". May 11, 1977.
- Class 3. No. 145510. Hari Bhagat, of 21/6, Hadapsar Industrial Estate, Hadapsar, Poona-411013, State of Maharashtra, India, an Indian National. "Cigarette lighter". May 5, 1977.
- Class 3. No. 145514. Madhukar Ganpat Herekar, 1422, Kasba Peth, Poona-11, Maharashtra State, India. Indian National. "Toy". May 7, 1977.

Class 3: Nos. 145518 & 145519. Federal Elektro System, 301/306, Auto Commerce House, Opp : Jyoti Studio, Kennedy Bridge, Nana Chowk, Bombay-400007, Maharashtra, an Indian Partnership firm. "Ventilators for cars". May 9, 1977.

Class 3. No. 145543. Mona Toys Industries, a Partnership firm, of C-124, Rewari Line, Industrial Area Phase-II, Maya Puri, New Delhi-27, India. "Toys". May 11, 1977.

S. VEDARAMAN,  
Controller-General of Patents, Designs  
and Trade Marks.